

# Author Index

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### KEY TO ABBREVIATIONS USED FOR ARTICLE CLASSIFICATION

|                      |                         |                             |
|----------------------|-------------------------|-----------------------------|
| * = Original Article | CV = Current Review     | PA = Presidential Address   |
| AB = Abstract        | DI = Discussion         | RE = Report                 |
| AN = Announcement    | ED = Editorial          | RV = Review of Recent Books |
| CN = CTSNet          | HW = How to Do It       | SH = Our Surgical Heritage  |
| CP = Correspondence  | IC = Invited Commentary | TR = Tribute                |
| CR = Case Report     | KR = Key References     | UP = Update                 |

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- Abe T. *see* Fukada, Morishita, & others. 1998;65:1566–70\*
- Abe T. *see* Morishita, Abe, & others. 1998;65:1795–6,HW
- Abe T. *see* Morishita, Mawatari, & others. 1998;65:696–9\*
- Abe T. *see* Morishita, Shiiku, & Abe. 1998;65:1196–7,CP
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- Actis R. *see* Ungacta, Dávila-Román, & others. 1998;65:943–50\*
- Adachi H. *see* Yamaguchi, Ino, & others. 1998;65:434–8\*
- Adams D. *see* Morse, Adams, & Magnani. 1998;65:691–5\*
- Adatia I. *see* Black, Adatia, & Freedom. 1998;65:1737–40\*
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- Airan B. *see* Choudhary, Bhan, & others. 1998;65:735–40\*
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- Allen BS. *see* Theodoro, Danielson, & others. 1998;65:149–54,DI
- Allen MD. *see* Rand, Cochran, & others. 1998;65:1046–9\*
- Allen SJ. *see* Wartens, Allen, & others. 1998;65:961–6\*
- Alling C. *see* Jönsson, Johnsson, & others. 1998;65:1639–44\*
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- Altermatt HJ. *see* Furrer, Lardinois, & others. 1998;65:1420–5\*
- Altermatt H-J. *see* Furrer, Lardinois, & others. 1998;65:1523–8\*
- Althaus U. *see* Furrer, Lardinois, & others. 1998;65:1420–5\*
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- Andrew MJ. *see* Kneebone, Andrew, & others. 1998;65:1320–5\*
- Anene CA. *see* Rousou, Tighe, & others. 1998;65:403–6\*
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- Aoe M. *see* Date, Goto, & others. 1998;65:939–42\*
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January issue, pp 1–306; February issue, pp 307–606; March issue, pp 607–900; April issue, pp 901–1200; April supplement, pp S1–28; May issue, pp 1201–1518; June issue, pp 1519–1912; June supplement, pp S29–76.

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- Avenia N. *see* Daddi, Puma, & others. 1998;65:203-7\*
- Azami T. *see* Yamashita, Okada, & others. 1998;65:955-60\*
- Aziz S. *see* Rand, Cochran, & others. 1998;65:1046-9\*
- Baba T. *see* Morishita, Mawatari, & others. 1998;65:696-9\*
- Babikian V. *see* Aldea, O'Gara, & others. 1998;65:425-33\*
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- Backer CL. *see* Frank, Mavroudis, & others. 1998;65:1788-90,CR
- Badhwar V. *see* Mott, Oh, & others. 1998;65:1039-45\*
- Bailey LL. *see* Gundry, Shattuck, & others. 1998;65:1100-4\*
- Bailey WW. *see* Grünenfelder, Bartram, & others. 1998;65:1790-1,CR
- Baird DK. *see* Paterson, Jones, & others. 1998;65:1571-3\*
- Baker RA. *see* Kneebone, Andrew, & others. 1998;65:1320-5\*
- Bakhos M. *see* Roughneen, DeLeon, & others. 1998;65:1368-76\*
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- Banerjee A. *see* Cain, Meldrum, & others. 1998;65:1065-70\*
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- Baroni M. *see* Maffei, Baroni, & others. 1998;65:397-402\*
- Barsotti P. *see* Chatzimichalis, Massard, & others. 1998;65:927-9\*
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- Beanlands DS. *see* Gill, Beanlands, & others. 1998;65:659-62\*
- Bechtel JFM. *see* Bartels, Leyh, & others. 1998;65:1631-3\*
- Becker AE. *see* Shiokawa & Becker. 1998;65:1381-7\*
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- Bell TJ. *see* Roughneen, DeLeon, & others. 1998;65:1368-76\*
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- Betticher D. *see* Furrer, Lardinois, & others. 1998;65:1420-5\*
- Betticher D. *see* Furrer, Lardinois, & others. 1998;65:1523-8\*
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- Biglioli P. *see* Pompilio, Rossoni, & others. 1998;65:986-92\*
- Birnbaum DE. *see* Wahba, Philipp, & others. 1998;65:1310-2\*
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- Boley TM. *see* Yim, Liu, & others. 1998;65:328-30\*
- Bolling SF. *see* Rohs, Kilgore, & others. 1998;65:1680-4\*
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- Borst C. *see* Gründeman, Borst, & others. 1998;65:1348-52\*
- Borst C. *see* Heijmen, Borst, & others. 1998;65:1093-9\*
- Borst C. *see* Heijmen, Gründeman, & Borst. 1998;65:705-11\*
- Borst HG. *see* Heinemann, Brassel, & others. 1998;65:346-51\*
- Bortolotti U. *see* Milano, Pietrabissa, & Bortolotti. 1998;65:1510-1,CP
- Bortolotti U. *see* Milano, Pratali, & others. 1998;65:700-4\*
- Bostanci K. *see* Tireli, Korkut, & others. 1998;65:596,CP
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- Brown WM III. *see* Duarte, Shearer, & others. 1998;65:1610-6\*
- Brown WR. *see* Brooker, Brown, & others. 1998;65:1651-5\*
- Browne BJ. *see* Prendergast, Furukawa, & others. 1998;65:88-94\*
- Bruniaux J. *see* Sakamoto, Galletti, & others. 1998;65:250-2,CR
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- Bucher HC. *see* Lacasse, Bucher, & others. 1998;65:220-6\*
- Buchman SR. *see* Ozaki, Buchman, & others. 1998;65:1660-5\*
- Buckley MJ. *see* Akins, Buckley, & others. 1998;65:1545-52\*
- Buelow R. *see* Masroor, Itescu, & others. 1998;65:144-8\*
- Buffolo E. *see* Palma, Gomes, & others. 1998;65:1135-7,CR
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- Burkhoff D. *see* Kohmoto, DeRosa, & others. 1998;65:1360-7\*
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- Verkkala K. *see* Voutilainen, Verkkala, & others. 1998;65:444-8\*
- Verlaan CWJ. *see* Gründeman, Borst, & others. 1998;65:1348-52\*
- Verlaan CWJ. *see* Heijmen, Borst, & others. 1998;65:1093-9\*
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- Vitullo DA. *see* Roughneen, DeLeon, & others. 1998;65:1368-76\*
- Vlahakes GJ. *see* Akins, Buckley, & others. 1998;65:1545-52\*
- Vogt PR. *see* Künzli, von Segesser, & others. 1998;65:1132-3,CR
- Vogt PR. *see* Schönbeck, Brunner-La Rocca, & others. 1998;65:1207-14\*
- Von Oppell UO. *see* Fulton, De Groot, & others. 1998;65:837-9,CR
- von Segesser LK. *see* Argenziano, Choudhri, & others. 1998;65:340-5,DI
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- Voutilainen P. *see* Voutilainen, Verkkala, & others. 1998;65:444-8\*
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- Wakiyama H. *see* Yamashita, Okada, & others. 1998;65:955-60\*
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- Wall MJ Jr. *see* LeMaire, Wall, & Mattox. 1998;65:1786-7,CR
- Wallace WHA. *see* Craig, Wallace, & others. 1998;65:1777-8,CR
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- Walsh JA. *see* Dumanian, Segalman, & others. 1998;65:1284-7\*
- Walter S. *see* Lacasse, Bucher, & others. 1998;65:220-6\*
- Walters HL III. *see* Lobdell, Walters, & Hakimi. 1998;65:598,CP
- Walther T. *see* Schneider, Falk, & others. 1998;65:1481-2,HW
- Wang D. *see* O'Brien, Ormont, & others. 1998;65:1273-8\*
- Wanke T. *see* Wisser, Klepetko, & others. 1998;65:793-9\*
- Ward KE. *see* Elkins, Knott-Craig, & others. 1998;65:496-502\*
- Warnes CA. *see* Theodoro, Danielson, & others. 1998;65:149-54\*
- Warrian RK. *see* Mutch, Lefevre, & others. 1998;65:59-65\*
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- Watanabe H. *see* Theodoro, Danielson, & others. 1998;65:149-54,DI
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- Watanabe Y. *see* Yahagi, Watanabe, & Kumon. 1998;65:1841,CP
- Watarida S. *see* Shiraishi, Watarida, & others. 1998;65:1458-9,CR
- Watson DC. *see* Gurbuz, Novick, & others. 1998;65:1105-9\*
- Watterson KG. *see* Ashraf, Butler, & others. 1998;65:480-4\*
- Wei LM. *see* Gammie, Zenati, & others. 1998;65:465-9\*
- Weinberg J. *see* Mehta, Weinberg, & others. 1998;65:17-23\*
- Weinberg PM. *see* Koutlas, Wernovsky, & others. 1998;65:1770-2,CR
- Weinstein S. *see* Flores, Goldstein, & others. 1998;65:833-5,CR
- Weisel RD. *see* Borger, Rao, & others. 1998;65:1050-6\*
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- Werner K. *see* Selinger, Werner, & others. 1998;65:1137-8,CR
- Wernerman J. *see* Jeppsson, Ekroth, & others. 1998;65:684-90\*
- Wernly JA. *see* Temes, Talbot, & others. 1998;65:257-9,CR
- Wernly JA. *see* Temes, Willms, & others. 1998;65:282-4,HW
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- Westaby S. *see* Jönsson, Johnsson, & others. 1998;65:1639-44\*
- Westaby S. *see* Katsumata, Shinfeld, & Westaby. 1998;65:1764-5,CR
- Westaby S. *see* Marchbank, Parums, & Westaby. 1998;65:537-9,CR
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- Weyhing BT. *see* Ubat, Haapaniemi, & others. 1998;65:539-40,CR
- Wheatley DJ. *see* Pathi, Morrison, & others. 1998;65:993-8\*
- White P. *see* Harrington, Duckworth, & others. 1998;65:1599-603\*
- White WD. *see* Croughwell, Reves, & others. 1998;65:1226-30\*
- White WD. *see* Grocott, Croughwell, & others. 1998;65:1645-50\*
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- Wihlm J-M. *see* Ducrocq, Thomas, & others. 1998;65:1410-4\*
- Wihlm J-M. *see* Massard, Hentz, & Wihlm. 1998;65:1838-9,CP
- Wiley T. *see* Massad, Benedetti, & others. 1998;65:1130-2,CR
- Wilgis EFS. *see* Dumanian, Segalman, & others. 1998;65:1284-7\*
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- Wollert H-G. *see* Beholz, Braun, & others. 1998;65:603-4,CP
- Wolner E. *see* Kandioler, Krömer, & others. 1998;65:909-12\*
- Wolner E. *see* Wisser, Klepetko, & others. 1998;65:793-9\*
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- Wood MK. *see* Hirsch, Dent, & others. 1998;65:1394-9\*
- Wozniak TC, Naunheim KS. Bronchial carcinoid tumor metastatic to the breast. 1998;65:1148-9,CR
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- Wuamett JD. *see* Johnson, Cromartie, & others. 1998;65:1167,HW
- Wunderlich J. *see* Reichensperner, Guliernos, & others. 1998;65:413-9\*
- Wurnig P. *see* Ohtsuka, Wolf, & others. 1998;65:855-6,HW
- Wurtz AJ. *see* Fabre, Porte, & others. 1998;65:1144-6,CR
- Wurtz AJ. *see* Porte, Roumilhac, & others. 1998;65:331-5\*
- Yacoub MH. *see* Chester, Morrison, & Yacoub. 1998;65:1685-9\*
- Yacoub MH. *see* Novick, Stitt, & others. 1998;65:227-34\*
- Yacoub M. *see* Hunt, Parratt, & others. 1998;65:712-8\*
- Yada I. *see* Tenpaku, Onoda, & others. 1998;65:1580-7\*
- Yagihara T. *see* Murakami, Yagihara, & others. 1998;65:1377-80\*
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- Yamaguchi M. *see* Yoshimura, Yamaguchi, & others. 1998;65:1746-50\*
- Yamamoto F. *see* Murakami, Yagihara, & others. 1998;65:1377-80\*
- Yamamoto H. *see* Goh, Sasajima, & others. 1998;65:551-3,CR
- Yamamoto N. *see* Kohmoto, DeRosa, & others. 1998;65:1360-7\*
- Yamashita A. *see* Watanabe, Misaki, & others. 1998;65:1673-5\*
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- Yamashita K. *see* Murakami, Yagihara, & others. 1998;65:1377-80\*
- Yamashita M. *see* Date, Goto, & others. 1998;65:939-42\*
- Yang C-j. *see* Gowda, Yang, & others. 1998;65:1241-7\*
- Yang HW. *see* Choi, Yang, & Lee. 1998;65:896-7,CP
- Yang M-W. *see* Lin, Chang, & others. 1998;65:165-70\*
- Yang P-Z. *see* Lu, Chang, & others. 1998;65:24-7\*
- Yared J-P. *see* Gordon, Serkey, & others. 1998;65:95-100\*
- Yasuda K. *see* Shiiya, Yasuda, & others. 1998;65:546-8,CR
- Yasuda T. *see* Kawasuji, Tomita, & others. 1998;65:1260-4\*
- Yasui H. *see* Masuda, Kado, & others. 1998;65:1721-5\*
- Yasui H. *see* Nakano, Tominaga, & others. 1998;65:1158-60,HW
- Yazdani S. *see* Moazami, Argenziano, & others. 1998;65:628-31\*
- Yeh K-H. *see* Chen, Guo, & others. 1998;65:1666-72\*
- Yilmaz M. *see* Böke, Yilmaz, & Özkan. 1998;65:596-7,CP
- Yilmaz M. *see* Böke, Yilmaz, & Özkan. 1998;65:899,CP
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- Yim APC, Liu H-P, Hazelrigg SR, Izzat MB, Fung ALK, Boley TM, Magee MJ. Thoracoscopic operations on reoperated chests. 1998;65:328-30\*
- Yim APC. *see* Izzat & Yim. 1998;65:894,CP
- Yim APC. *see* Izzat, Yim, & El-Zufari. 1998;65:1513-4,CP
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- Yokouchi H. *see* Kodama, Higashiyama, & others. 1998;65:1198,CP
- Yonan NA. *see* El Gamel, Yonan, & others. 1998;65:41-7\*
- Yoshida T. *see* Tenpaku, Onoda, & others. 1998;65:1580-7\*
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- Yoshimura T. *see* Yamashita, Okada, & others. 1998;65:955-60\*
- Yost P. *see* Dietrich. 1998;65:S60-4,DI
- You JM. *see* Li, Sullivan, & others. 1998;65:115-24\*
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- Young JB. *see* McCarthy, McCarthy, & others. 1998;65:1574-9\*
- Young JS. *see* Rayhrer, Edmisten, & others. 1998;65:935-8\*
- Youngblood RW. *see* Hoff, Sawyers, & others. 1998;65:176-81,DI
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- Zales VR. *see* Michelfelder, Zales, & Jacobs. 1998;65:260-3,CR
- Zalewski A. *see* O'Brien, Ormont, & others. 1998;65:1273-8\*
- Zaret BL. *see* Mehta, Weinberg, & others. 1998;65:17-23\*
- Zeebregts CJAM, Schepens MA. Aortic dissection during pregnancy. Reply. 1998;65:1512,CP
- Zellner JL. *see* Hebbbar, Houck, & others. 1998;65:1077-82\*
- Zellner JL. *see* Houck, Kribbs, & others. 1998;65:1279-83\*
- Zempo N. *see* Gohra, Fujimura, & others. 1998;65:719-23\*
- Zenati M. *see* Gammie, Zenati, & others. 1998;65:465-9\*
- Zinkovsky SM. *see* Shin'oka, Shum-Tim, & others. 1998;65:155-64\*
- Zolfaghari D, Pfister AJ. MIDCABG followed by a gastrointestinal operation in the same anesthetic setting. 1998;65:1452-3,CR
- Zuccaro G Jr. *see* Rice, Zuccaro, & others. 1998;65:787-92\*
- Zuniga CE. *see* Nozar & Zuniga. 1998;65:603,CP
- Zwart HHJ. Rapid cooling contracture with cold cardioplegia. 1998;65:891-2,CP
- Zwischenberger JB. Renal effects of  $\alpha$ -ketoglutarate early after coronary operations. 1998;65:690,IC



# Subject Index

## Volume 65 (January–June 1998)

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### KEY TO ABBREVIATIONS USED FOR ARTICLE CLASSIFICATION

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|                      |                         |                             |
|----------------------|-------------------------|-----------------------------|
| * = Original Article | CV = Current Review     | PA = Presidential Address   |
| AB = Abstract        | DI = Discussion         | RE = Report                 |
| AN = Announcement    | ED = Editorial          | RV = Review of Recent Books |
| CN = CTSNet          | HW = How to Do It       | SH = Our Surgical Heritage  |
| CP = Correspondence  | IC = Invited Commentary | TR = Tribute                |
| CR = Case Report     | KR = Key References     | UP = Update                 |

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#### Abciximab

Abciximab and excessive bleeding in patients undergoing emergency cardiac operations (Gammie, Zenati, & others) 1998;65:465–9\*

#### Accident prevention

Accidental hyperperfusion during cardiopulmonary bypass: suggested safety features (Tempe & Khanna) 1998;65:306,CP

#### Actinomycosis

Broncholithiasis and thoracoabdominal actinomycosis from dropped gallstones (Noda, Soybel, & others) 1998;65:1465–7,CR

#### Adenocarcinoma

Prognosis of adenocarcinoma arising in Barrett's esophagus (Hoff, Sawyers, & others) 1998;65:176–80\*

#### Adenosine

Adenosine prevents K<sup>+</sup>-induced Ca<sup>2+</sup> loading: insight into cardioprotection during cardioplegia (Jovanović, Lopez, & others) 1998;65:586–91,CV

#### Adenosine triphosphate

Temporal relation of ATP-sensitive potassium-channel activation and contractility before cardioplegia (Hebbbar, Houck, & others) 1998;65:1077–82\*

#### Adhesion molecules

Are circulating adhesion molecules specifically changed in cardiac surgical patients? (Boldt, Kumle, & others) 1998;65:608–14\*

Expression of vascular adhesion molecules in saphenous vein coronary bypass grafts (Chester, Morrison, & Yacoub) 1998;65:1685–9\*

#### Adrenal cortex hormones

Steroids for pulmonary metastases of thymoma (Weissberg) 1998;65:1197–8,CP; Reply (Kodama, Higashiyama, & others) 1998;65:1198,CP

#### Adrenal gland neoplasms

Adrenalectomy for a solitary adrenal metastasis from lung cancer (Porte, Roumilhac, & others) 1998;65:331–5\*

MRI as an alternative to CT-guided biopsy of adrenal masses in patients with lung cancer (Schwartz, Ginsberg, & others) 1998;65:193–7\*

Transthoracic, transdiaphragmatic excision of simultaneous lung and adrenal lesions (Flores, Goldstein, & others) 1998;65:833–5,CR

#### Adrenalectomy

Adrenalectomy for a solitary adrenal metastasis from lung cancer (Porte, Roumilhac, & others) 1998;65:331–5\*

#### Adrenergic $\beta$ -antagonists

$\beta$ -blockade as an alternative to cardioplegic arrest during cardiopulmonary bypass (Warters, Allen, & others) 1998;65:961–6\*

#### Age

Late outcome of coronary artery bypass grafting in young versus older patients (Rohrer-Gubler, Niederhauser, & Turina) 1998;65:377–82\*

#### Aged

Large eventration of diaphragm in an elderly patient treated with emergency plication (Watanabe, Shimokawa, & others) 1998;65:1776–7,CR

Repair of thoracoabdominal aortic aneurysms in octogenarians (Girardi & Coselli) 1998;65:491–5\*

Reversibility of cardiac dysfunction after valve replacement in elderly patients with severe aortic stenosis (Natsuaki, Itoh, & others) 1998;65:1634–8\*

#### Airway obstruction

Percutaneous placement of tracheal T tube (Wood, Reynolds, & Vallières) 1998;65:557–8,CR

Resection with curative intent after endoscopic treatment of airway obstruction (Daddi, Puma, & others) 1998;65:203–7\*

#### Alprostadil

Prostaglandin E<sub>1</sub> from the tip of an intraaortic balloon catheter for lower limb ischemia (Nakano, Tominaga, & others) 1998;65:1158–60,HW

#### Altitude

Tricuspid valve repair in a mountaineer (Marchbank, Parums, & Westaby) 1998;65:537–9,CR

#### $\epsilon$ -Aminocaproic acid

High-dose  $\epsilon$ -aminocaproic acid versus aprotinin: antifibrinolytic efficacy in first-time coronary operations (Eberle, Mayer, & others) 1998;65:667–73\*

Prophylactic tranexamic acid and  $\epsilon$ -aminocaproic acid for primary myocardial revascularization (Hardy, Bélisle, & others) 1998;65:371–6\*

#### Aminooleic acid

Refined alpha aminooleic acid and experimental calcification in bioprostheses (Chanda, Kuribayashi, & Abe) 1998;65:888,CP

#### Anastomosis, surgical

Anastomosis of the left juxtaposed atrial appendages in a patient with tricuspid atresia (Kaneko, Okabe, & others) 1998;65:1783–4,CR

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**Anastomosis, surgical (cont'd)**

- Atrial flap anastomosis: an alternative technique for orthotopic heart transplantation (Döring & Marcsek) 1998;65:1163-4,HW
- Coarctation repair: modification of end-to-end anastomosis with subclavian flap angioplasty (Hovaguimian, Senthilnathan, & others) 1998;65:1751-4\*
- Growth of the subclavian artery and the anastomosis in Blalock-Taussig shunt: absorbable versus nonabsorbable suture (Yoshimura, Yamaguchi, & others) 1998;65:1746-50\*
- Intima-adventitia apposition in end-to-side arterial anastomosis: an experimental study in the pig (Heijmen, Gründeman, & Borst) 1998;65:705-11\*
- Performance of a safe proximal anastomosis in aortic dissection (Prêtre) 1998;65:1798-9,HW
- Repair of complex unroofed coronary sinus by anastomosis of left to right superior vena cava (van Son, Hambsch, & Mohr) 1998;65:280-1,HW
- Repair of ruptured anastomotic aneurysm: elephant trunk technique after endovascular covered stents (Ezure, Kotsuka, & others) 1998;65:241-3,CR
- Side-to-side aorto-Gore-Tex central shunt (Gates, Laks, & Johnson) 1998;65:515-6\*
- Terminalized semimechanical side-to-side suture technique for cervical esophagostomy (Collard, Romagnoli, & others) 1998;65:814-7\*

**Anatomy**

- Surgical anatomy of aorto-left ventricular tunnel (Ho, Muriago, & others) 1998;65:509-14\*

**Anemia, sickle cell**

- Acute normovolemic red cell exchange for cardiopulmonary bypass in sickle cell disease (Shulman, McQuitty, & others) 1998;65:1444-6,CR

**Anesthesia**

- MIDCABG followed by a gastrointestinal operation in the same anesthetic setting (Zolfaghari & Pfister) 1998;65:1452-3,CR
- Thoracoscopic operation for secondary pneumothorax under local and epidural anesthesia in high-risk patients (Mukaida, Andou, & others) 1998;65:924-6\*

**Anesthetics**

- Anesthetic technique influences brain temperature during cardiopulmonary bypass in dogs (Wass, Cable, & others) 1998;65:454-60\*

**Aneurysm**

- Aneurysm of the left sinus of Valsalva producing aortic valve regurgitation and myocardial ischemia (Takahara, Sudo, & others) 1998;65:535-7,CR
- Coronary artery aneurysm repaired with saphenous vein patch plasty (Moriyama, Hisatomi, & others) 1998;65:561-2,CR
- Idiopathic saccular azygos vein aneurysm (Watanabe, Kusajima, & others) 1998;65:1459-61,CR
- Impact of retrograde cerebral perfusion with posterolateral thoracotomy on distal arch aneurysm repair (Yamashita, Okada, & others) 1998;65:955-60\*
- Inflammatory aneurysm of the ascending aorta (Künzli, von Segesser, & others) 1998;65:1132-3,CR
- Inflammatory aneurysm or Takayasu's disease? (Burke & Virmani) 1998;65:1835,CP; Reply (Girardi & Coselli) 1998;65:1835-6,CP
- Left ventricular aneurysm repair (Fishman) 1998;65:602,CP; Reply (Shapira) 1998;65:602-3,CP

- Lung transplantation for primary pulmonary hypertension and giant pulmonary artery aneurysm (Wekerle, Klepetko, & others) 1998;65:825-7,CR

- Repair of ruptured anastomotic aneurysm: elephant trunk technique after endovascular covered stents (Ezure, Kotsuka, & others) 1998;65:241-3,CR

- Repair of thoracoabdominal aortic aneurysms in octogenarians (Girardi & Coselli) 1998;65:491-5\*

- Reversal of renal failure and paraplegia after thoracoabdominal aneurysm repair (Widmann, DeLucia, & others) 1988;65:1153-5,CR

- Unruptured aneurysm of the sinus of Valsalva into the pulmonary artery (Shiraishi, Watarida, & others) 1998;65:1458-9,CR

**Aneurysm, dissecting**

- Aneurysm of sinus of Valsalva dissecting into interventricular septum (Choudhary, Bhan, & others) 1998;65:735-40\*

- Performance of a safe proximal anastomosis in aortic dissection (Prêtre) 1998;65:1798-9,HW

- Surgical treatment of aortic dissections: initial experience with the adventitial inversion technique (García-Rinaldi, Carballido, & others) 1998;65:1255-9\*

**Aneurysm, false**

- Pseudoaneurysm of the septal branch in coronary artery bypass grafting on the beating heart (Endoh, Ohtsuka, & others) 1998;65:1517-8,CP; Reply (Jaber, Spence, & Pagni) 1998;65:1518,CP

- Saphenous vein graft pseudoaneurysm rupture after coronary artery bypass grafting (Mohara, Konishi, & others) 1998;65:831-2,CR

**Aneurysm, infected**

- Mycotic aneurysm of the left coronary artery (Matsumoto, Konishi, & others) 1998;65:841-2,CR

- Repair of mitral valve and subaortic mycotic aneurysm in a child with endocarditis (Frank, Mavroudis, & others) 1998;65:1788-90,CR

**Angiography**

- Angiographic follow-up of internal thoracic artery for free bypass grafting (Masuda, Matsuda, & others) 1998;65:731-4\*

- The role of spinal angiography in operations on the thoracic aorta: myth or reality? (Heinemann, Brassel, & others) 1998;65:346-51\*

- Thermal coronary angiography in CABG (Robicsek) 1998;65:303,CP; Reply (Mohr) 1998;65:303-4,CP

**Angioplasty**

- Coarctation repair: modification of end-to-end anastomosis with subclavian flap angioplasty (Hovaguimian, Senthilnathan, & others) 1998;65:1751-4\*

- Left main coronary artery patch angioplasty: midterm experience and follow-up with spiral computed tomography (Meseguer, Hurlé, & others) 1998;65:1594-8\*

**Angioplasty, balloon**

- Hybrid MIDCABG and balloon angioplasty for multivessel coronary artery disease (Izzat, Yim, & El-Zufari) 1998;65:1513-4,CP; Reply (Mack) 1998;65:1514-5,CP

**Angiotensin II**

- Effects of an angiotensin II antagonist on ischemic and non-ischemic isolated rat hearts (Paz, Gurevitch, & others) 1998;65:474-9\*

**The Annals of Thoracic Surgery**

- Editorial board changes 1998;65:607,AN

**Anoxia**

- Hypoxia increases vasodilator release from internal mammary artery and saphenous vein grafts (Pearson, Evora, & others) 1998;65:1220-5\*



**Antibodies, monoclonal**

- Abciximab and excessive bleeding in patients undergoing emergency cardiac operations (Gammie, Zenati, & others) 1998;65:465-9\*

**Anticoagulants**

- Effect of anticoagulation protocol on outcome in patients undergoing CABG with heparin-bonded cardiopulmonary bypass circuits (Aldea, O'Gara, & others) 1998;65:425-33\*

**Antifibrinolytic agents**

- High-dose  $\epsilon$ -aminocaproic acid versus aprotinin: antifibrinolytic efficacy in first-time coronary operations (Eberle, Mayer, & others) 1998;65:667-73\*

**Antineoplastic agents**

- Cytostatic lung perfusion by use of an endovascular blood flow occlusion technique (Furrer, Lardinois, & others) 1998;65:1523-8\*

**Aorta**

- Aortic valve operations under deep hypothermic circulatory arrest for the porcelain aorta: "no-touch" technique (Byrne, Aranki, & Cohn) 1998;65:1313-5\*
- Diagnosis and management of traumatic aorto-right ventricular fistulas (Samuels, Kaufman, & others) 1998;65:288-92, CV
- Inflammatory aneurysm of the ascending aorta (Künzli, von Segesser, & others) 1998;65:1132-3, CR
- Influence of ascending versus descending balloon counterpulsation on bypass graft blood flow (Gitter, Cate, & others) 1998;65:365-9\*
- Management of the atherosclerotic ascending aorta with endoaortic occlusion (Liddicoat, Doty, & Stuart) 1998;65:1133-5, CR
- Method for creation of the aortotomy site for saphenous vein grafts (Alexander, Votapka, & others) 1998;65:861-2, HW
- Paraplegia caused by aortic dissection after intraaortic balloon pump assist (Beholz, Braun, & others) 1998;65:603-4, CP; Reply (Hurlé, Llamas, & others) 1998;65:604, CP
- Performance of a safe proximal anastomosis in aortic dissection (Prêtre) 1998;65:1798-9, HW
- Repair of aortico-left ventricular tunnel originating from the left aortic sinus (Michielon, Sorbara, & Casarotto) 1998;65:1780-3, CR
- Resection of a chest chondrosarcoma invading the spine and the aorta (Noirhomme, d'Udekem, & others) 1998;65:534-5, CR
- Reversal of renal failure and paraplegia after thoracoabdominal aneurysm repair (Widmann, DeLucia, & others) 1988;65:1153-5, CR
- Side-to-side aorto-Gore-Tex central shunt (Gates, Laks, & Johnson) 1998;65:515-6\*
- Simultaneous total aortic replacement without a sternotomy incision (Shiia, Yasuda, & others) 1998;65:546-8, CR
- Size distribution of aortic emboli (Spencer) 1998;65:598-9, CP
- Stentless xenograft repair of the dissected aortic root (Westaby, Katsumata, & others) 1998;65:1448-50, CR
- Surgical anatomy of aorto-left ventricular tunnel (Ho, Muriago, & others) 1998;65:509-14\*
- Surgical management of aortopulmonary window (Di Bella & Gladstone) 1998;65:768-70\*
- Surgical treatment of aortic dissections: initial experience with the adventitial inversion technique (García-Rinaldi, Carballido, & others) 1998;65:1255-9\*
- Sutureless ring graft replacement of ascending aorta and aortic arch (Oz, Ashton, & Lemole) 1998;65:1186-7, UP

- Temporary aorto-pulmonary shunt for pulmonary hypertension after truncus arteriosus repair (Katsumata, Shinfield, & Westaby) 1998;65:1764-5, CR

- Transapical aortic cannulation in pediatric patients (Kapadia & Russo) 1998;65:888, CP; Reply (Watanabe) 1998;65:888-9, CP

**Aorta, thoracic**

- Control of Endoaortic Clamp position during Port-Access mitral valve operations using transcranial Doppler echography (Schneider, Falk, & others) 1998;65:1481-2, HW
- Esophageal compression by the aorta after arterial switch (McElhinney, Reddy, & others) 1998;65:246-8, CR
- Extended aortic arch atherectomy (Khaki, Ravichandran, & others) 1998;65:255-7, CR
- Impact of retrograde cerebral perfusion with posterolateral thoracotomy on distal arch aneurysm repair (Yamashita, Okada, & others) 1998;65:955-60\*
- Is the elephant trunk technique really necessary for extensive arch aneurysm? (Sasaguri & Fukuda) 1998;65:1512-3, CP; Reply (Svensson) 1998;65:1513, CP
- One-stage repair of interrupted aortic arch and aortopulmonary window (Hata, Shiono, & others) 1998;65:829-31, CR
- Proximal aortic control in traumatic rupture of the thoracic aorta (Williams) 1998;65:1797, HW
- Repair of ruptured anastomotic aneurysm: elephant trunk technique after endovascular covered stents (Ezure, Kotsuka, & others) 1998;65:241-3, CR
- Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998;65:1135-7, CR
- The role of spinal angiography in operations on the thoracic aorta: myth or reality? (Heinemann, Brassel, & others) 1998;65:346-51\*
- The surgical anatomy of the left ventricular outflow tract in hearts with ventricular septal defect and aortic arch obstruction (Shiokawa and Becker) 1998;65:1381-7\*
- Surgical indications and timing of repair of traumatic ruptures of the thoracic aorta (Galli, Pacini, & others) 1998;65:461-4\*
- Surgical management of hemorrhage from rupture of the aortic arch (Prêtre, Murith, & others) 1998;65:1291-5\*
- Sutureless ring graft replacement of ascending aorta and aortic arch (Oz, Ashton, & Lemole) 1998;65:1186-7, UP
- Two-stage repair for aortic regurgitation with interrupted aortic arch (Ogino, Miki, & others) 1998;65:1151-3, CR
- Aortic aneurysm**
- Aortic dissection during pregnancy (Cheng) 1998;65:1511-2, CP; Reply (Zeebregts & Schepens) 1998;65:1512, CP
- Is the elephant trunk technique really necessary for extensive arch aneurysm? (Sasaguri & Fukuda) 1998;65:1512-3, CP; Reply (Svensson) 1998;65:1513, CP
- Performance of a safe proximal anastomosis in aortic dissection (Prêtre) 1998;65:1798-9, HW
- Repair of ruptured anastomotic aneurysm: elephant trunk technique after endovascular covered stents (Ezure, Kotsuka, & others) 1998;65:241-3, CR
- Repair of thoracoabdominal aortic aneurysms in octogenarians (Girardi & Coselli) 1998;65:491-5\*
- Surgical treatment of aortic dissections: initial experience with the adventitial inversion technique (García-Rinaldi, Carballido, & others) 1998;65:1255-9\*
- Aortic coarctation**
- Coarctation repair: modification of end-to-end anastomosis with subclavian flap angioplasty (Hovaguimian, Senthilnathan, & others) 1998;65:1751-4\*

**Aortic coarctation (cont'd)**

Total simultaneous repair of coarctation and intracardiac pathology in adult patients (Morris, Samuels, & Brockman) 1998;65:1698-702\*

**Aortic rupture**

Proximal aortic control in traumatic rupture of the thoracic aorta (Williams) 1998;65:1797,HW

Surgical indications and timing of repair of traumatic ruptures of the thoracic aorta (Galli, Pacini, & others) 1998;65:461-4\*

**Aortic valve**

Aortic valve operations under deep hypothermic circulatory arrest for the porcelain aorta: "no-touch" technique (Byrne, Aranki, & Cohn) 1998;65:1313-5\*

Aortic valve repair with bovine pericardium (Al-Halees, Gometza, & Duran) 1998;65:601-2,CP; Reply (Monro) 1998;65:602,CP

Discrepancies between size and valve dimensions: implications for small aortic root (Bartels, Leyh, & others) 1998;65:1631-3\*

Endothelial-dependent dynamic and antithrombotic properties of aortic and pulmonary valves (Pompilio, Rossoni, & others) 1998;65:986-92\*

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Minimally invasive reversed Z sternotomy for aortic valve replacement (Nair & Sharpe) 1998;65:1165-6,HW

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Pulmonary root replacement with the Freestyle stentless aortic xenograft in growing pigs (Schoof, Hazekamp, & others) 1998;65:1726-9\*

Right-sided partial sternotomy for minimally invasive valve operation: "open door method" (Kasegawa, Shimokawa, & others) 1998;65:569-70,HW

Risk of reoperative valve replacement for failed mitral and aortic bioprostheses (Akins, Buckley, & others) 1998;65:1545-52\*

Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998;65:1450-2,CR

The Ross operation in children: 10-year experience (Elkins, Knott-Craig, & others) 1998;65:496-501\*

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Should aortic valve homograft be cryopreserved? (Ohkado, Hachida, & others) 1998;65:1083-6\*

Stentless xenograft repair of the dissected aortic root (Westaby, Katsumata, & others) 1998;65:1448-50,CR

A surgical method for selecting appropriate size of graft in aortic root remodeling (Morishita, Abe, & others) 1998;65:1795-6,HW

**Aortic valve insufficiency**

Aneurysm of the left sinus of Valsalva producing aortic valve regurgitation and myocardial ischemia (Takahara, Sudo, & others) 1998;65:535-7,CR

Leaflet's free edge suspension for correction of aortic insufficiency associated with ventricular septal defect (Kalangos, Beghetti, & others) 1998;65:566-8,HW

MRI-radiofrequency tissue tagging in patients with aortic insufficiency before and after operation (Ungacta, Dávila-Román, & others) 1998;65:943-50\*

Two-stage repair for aortic regurgitation with interrupted aortic arch (Ogino, Miki, & others) 1998;65:1151-3,CR

**Aortic valve stenosis**

Aortic stenosis bicuspid valve repair using pericardium (Freitas) 1998;65:604-5,CP; Reply (Kadri, Hovaguimian, & Starr) 1998;65:605,CP

Late results and reintervention after aortic valvotomy for critical aortic stenosis in neonates and infants (Hawkins, Minich, & others) 1998;65:1758-63\*

Management of patients with mild aortic stenosis undergoing coronary artery bypass grafting (Tam, Masters, & others) 1998;65:1215-9\*

Preoperative assessment of coronary artery disease in aortic stenosis: a dipyridamole echocardiographic study (Maffei, Baroni, & others) 1998;65:397-402\*

Reconstruction of supraaortic stenosis with autologous pulmonary artery (Al-Halees, Prabhakar, & Galal) 1998;65:532-4,CR

Reversibility of cardiac dysfunction after valve replacement in elderly patients with severe aortic stenosis (Natsuaki, Itoh, & others) 1998;65:1634-8\*

Stentless aortic bioprostheses: compelling data from the Second International Symposium (Westaby, Huysmans, & David) 1998;65:235-40\*

Supraaortic stenosis: a modification of extended aortoplasty (Steinberg, Delius, & Behrendt) 1998;65:277-9,HW

**Apoptosis**

Apoptosis is involved in acute cardiac allograft rejection in rats (Kageyama, Li, & others) 1998;65:1604-9\*

**Appetite depressants**

Mitral valve disease associated with use of anorexigenic medications (Cheng) 1998;65:298-9,CP

**Aprotinin**

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Aprotinin enhances the endogenous release of interleukin-10 after cardiac operations (Hill, Diego, & others) 1998;65:66-9\*

Aprotinin versus lysine analogues: the debate continues (Royston) 1998;65:S9-19\*

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Influence of high- and low-dose aprotinin on activation of hemostasis in open heart operations (Dietrich, Schöpf, & others) 1998;65:70-6\*

**Aprotinin in pediatric surgery**

Activation of hemostasis during cardiopulmonary bypass and pediatric aprotinin dosage (Mössinger & Dietrich) 1998;65:S45-51\*

The Bayer 022 compassionate-use pediatric study (Coniff) 1998;65:S31-4\*

Consensus discussion on Trasylol use in pediatric surgery: current knowledge 1998;65:S74-6,DI

Effects of cardiopulmonary bypass and use of modified ultrafiltration (Ungerleider) 1998;65:S35-9\*

Endothelial-related coagulation in pediatric surgery (Boldt) 1998;65:S56-9\*

Incidence of hypersensitivity reactions (Dietrich) 1998;65:S60-4\*

Introduction (Greeley) 1998;65:S29-30\*

Neurologic sequelae associated with deep hypothermic circulatory arrest (Hickey) 1998;65:S65-70\*

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Review of efficacy parameters (Pouard) 1998;65:S40-4\*



- Use of aprotinin in pediatric organ transplantation (Spray) 1998;65:S71-3\*
- Arginine**  
Retrograde infusion of lidocaine or L-arginine before reperfusion reduces myocardial infarct size (Lee, Nitta, & others) 1998;65:1353-9\*
- Arrhythmia**  
Arrest duration influences postcardioplegia electrophysiologic recovery and reperfusion arrhythmias (Murrah, Ferguson, & others) 1998;65:1003-8\*  
Implantable cardioverter-defibrillators in children: a single-institutional experience (Wilson, Greer, & Grubb) 1998;65:775-8\*  
Reimplantation of infected antiarrhythmic implantable devices (Böke, Yilmaz, & Özkan) 1998;65:596-7,CP; Reply (Molina) 1998;65:597,CP  
Reimplantation of infected antiarrhythmic implantable devices (Böke, Yilmaz, & Özkan) 1998;65:899,CP  
Right-sided maze procedure for right atrial arrhythmias in congenital heart disease (Theodoro, Danielson, & others) 1998;65:149-53\*  
Temporary atrial electrode for the treatment of supraventricular tachycardia after cardiac operations (Mehmanesh, Lange, & Hagl) 1998;65:632-6\*
- Arteriotomy**  
Temporary luminal arteriotomy seal for bypass grafting (Heijmen, Borst, & others) 1998;65:1093-9\*
- Arteriovenous malformations**  
Reversal of pulmonary arteriovenous malformation after diversion of anomalous hepatic drainage (Lee, Menkis, & Rosenberg) 1998;65:848-9,CR  
Transesophageal echocardiography in an operation for pulmonary arteriovenous malformation (Almeida, Thomson, & others) 1998;65:267-8,CR
- Aspartic acid**  
Intravenous aspartate infusion after a coronary operation: effects on myocardial metabolism and hemodynamic state (Vanhanen, Håkanson, & others) 1998;65:1296-302\*
- Aspergillus**  
Bronchopulmonary aspergilloma: a reappraisal (Chatzimichalis, Massard, & others) 1998;65:927-9\*  
Surgical therapy for pulmonary aspergillus in immunocompromised patients (Salerno, Ouyang, & others) 1998;65:1415-9\*
- Aspiration**  
Silent aspiration after coronary artery bypass grafting (Harrington, Duckworth, & others) 1988;65:1599-603\*
- Aspirin**  
Thromboxane production in human lung during cardiopulmonary bypass: beneficial effect of aspirin? (Erez, Erman, & others) 1998;65:101-6\*
- Assisted circulation**  
Effect of assisted circulation on left ventricular performance in a canine model (Uozaki, Murakami, & others) 1998;65:663-6\*
- Atherectomy**  
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- Atherosclerosis**  
Management of the atherosclerotic ascending aorta with endoaortic occlusion (Liddicoat, Doty, & Stuart) 1998;65:1133-5,CR
- Atrial fibrillation**  
Is atrial fibrillation resulting from rheumatic mitral valve disease a proper indication for the maze procedure? (Fukada, Morishita, & others) 1998;65:1566-70\*
- Radiofrequency and cryoablation of atrial fibrillation in patients undergoing valvular operations (Chen, Guo, & others) 1998;65:1666-72\*
- Right atrial isolation for atrial fibrillation associated with atrial septal defect (Harada, Ida, & Ikeshita) 1998;65:1766-8,CR
- Right-sided maze procedure for right atrial arrhythmias in congenital heart disease (Theodoro, Danielson, & others) 1998;65:149-53\*
- Atrial flutter**  
Right-sided maze procedure for right atrial arrhythmias in congenital heart disease (Theodoro, Danielson, & others) 1998;65:149-53\*
- Atrial natriuretic factor**  
Atrial natriuretic peptide-induced release of cyclic guanosine monophosphate by coronary bypass grafts (Bonatti, Dichtl, & others) 1998;65:1621-4\*  
Hemodynamic effects of human atrial natriuretic peptide after modified Fontan procedure (Hiramatsu, Imai, & others) 1998;65:761-4\*
- Autopsy**  
The autopsy: still important (Cheng) 1998;65:597-8,CP
- Axillary artery**  
Axillary-coronary bypass (Coulson & Bakhshay) 1998;65:304,CP; Reply (Knight) 1998;65:304-5,CP  
Minimally invasive axillary-coronary artery bypass (Morishita, Shiiku, & Abe) 1998;65:1196-7,CP; Reply (Knight) 1998;65:1197,CP  
Minimally invasive axillary-coronary artery bypass (Sakakibara) 1998;65:1197,CP; Reply (Knight) 1998;65:1197,CP
- Azygos vein**  
Idiopathic saccular azygos vein aneurysm (Watanabe, Kusajima, & others) 1998;65:1459-61,CR
- Balloon dilation**  
Thoracoscopic lobectomy with endoarterial vascular control: an experimental study in swine (Conlan, Hsi, & others) 1998;65:336-9\*
- Balloon occlusion**  
Isolated right ventricular hypoplasia: intraoperative balloon occlusion test (Goh, Sasajima, & others) 1998;65:551-3,CR
- Barrett's esophagus**  
Prognosis of adenocarcinoma arising in Barrett's esophagus (Hoff, Sawyers, & others) 1998;65:176-80\*
- Biliopancreatic reflux**  
Epithelial cell hyperproliferation after biliopancreatic reflux into the esophagus of rats (Pera, Grande, & others) 1998;65:779-86\*
- Biomechanics**  
Biomechanical study of sternal closure using rigid fixation techniques in human cadavers (Ozaki, Buchman, & others) 1998;65:1660-5\*
- Bioprosthesis**  
Behavior of mitral allografts in the tricuspid position in the growing sheep model (Bernal, Rabasa, & others) 1998;65:1326-30\*  
Pulmonary root replacement with the Freestyle stentless aortic xenograft in growing pigs (Schoof, Hazekamp, & others) 1998;65:1726-9\*  
Refined alpha aminooleic acid and experimental calcification in bioprostheses (Chanda, Kuribayashi, & Abe) 1998;65:888,CP  
Risk of reoperative valve replacement for failed mitral and aortic bioprostheses (Akins, Buckley, & others) 1998;65:1545-52\*

**Bioprosthesis (cont'd)**

Stentless aortic bioprostheses: compelling data from the Second International Symposium (Westaby, Huysmans, & David) 1998;65:235-40\*

Stentless xenograft repair of the dissected aortic root (Westaby, Katsumata, & others) 1998;65:1448-50,CR

**Biopsy**

Endomyocardial biopsy in the heterotopic heart transplant patient (Arzouman, Arabia, & others) 1998;65:857-8,HW

Intraoperative gamma probe-directed biopsy of asymptomatic suspected bone metastases (Robinson, Preksto, & others) 1998;65:1426-32\*

MRI as an alternative to CT-guided biopsy of adrenal masses in patients with lung cancer (Schwartz, Ginsberg, & others) 1998;65:193-7\*

The role of open lung biopsy in the management and outcome of patients with diffuse lung disease (Kramer, Berkman, & others) 1998;65:198-202\*

**Blood**

Autoblood plus OK432 pleurodesis with open drainage for persistent air leak after lobectomy (Yokomise, Satoh, & others) 1998;65:563-5,HW

Comprehensive multimodality blood conservation: 100 consecutive CABG operations without transfusion (Helm, Rosengart, & others) 1998;65:125-36\*

Secular trends in nosocomial bloodstream infections in a 55-bed cardiothoracic intensive care unit (Gordon, Serkey, & others) 1998;65:95-100\*

**Blood coagulation**

Activation of coagulation and fibrinolysis during cardiothoracic operations (Hunt, Parratt, & others) 1998;65:712-8\*

Endothelial-related coagulation in pediatric surgery (Boldt) 1998;65:S56-9\*

**Blood platelets**

Effect of nitric oxide gas on platelets during open heart operations (Mellgren, Mellgren, & others) 1998;65:1335-41\*

Effects of depletion of leukocytes and platelets on cardiac dysfunction after cardiopulmonary bypass (Chiba, Morioka, & others) 1998;65:107-13\*

The platelet thrombin receptor and postoperative bleeding (Ferraris, Ferraris, & others) 1998;65:352-8\*

**Blood pressure**

Jugular venous bulb oxygen saturation depends on blood pressure during cardiopulmonary bypass (Grubhofer, Lassnigg, & others) 1998;65:653-8\*

**Blood transfusion**

Acute normovolemic red cell exchange for cardiopulmonary bypass in sickle cell disease (Shulman, McQuitty, & others) 1998;65:1444-6,CR

Comprehensive multimodality blood conservation: 100 consecutive CABG operations without transfusion (Helm, Rosengart, & others) 1998;65:125-36\*

Impact of ultrafiltration on blood use for atrial septal defect closure in infants and children (Gurbuz, Novick, & others) 1998;65:1105-9\*

Reduction of allogeneic blood transfusions after open heart operations by lowering cardiopulmonary bypass prime volume (Shapira, Aldea, & others) 1998;65:724-30\*

**Blood transfusion, autologous**

Levels of troponin I and cardiac enzymes after reinfusion of shed blood in coronary operations (De Paulis, Colagrande, & others) 1998;65:1617-20\*

Shed mediastinal blood transfusion after cardiac operations: a cost-effectiveness analysis (Kilgore & Pacifico) 1998;65:1248-54\*

**Blood vessel prosthesis**

Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998;65:1135-7,CR

**Blood vessels**

Evidence of vascular growth associated with laser treatment of normal canine myocardium (Kohmoto, DeRosa, & others) 1998;65:1360-7\*

Pulmonary vascular resistance of children treated with nitrogen during early infancy (Hirsch, Dent, & others) 1998;65:1394-9\*

Temporary luminal arteriotomy seal for bypass grafting (Heijmen, Borst, & others) 1998;65:1093-9\*

Tumor angiogenesis as a prognostic marker in operable non-small cell lung cancer (Matsuyama, Chiba, & others) 1998;65:1405-9\*

**Bone**

Intraoperative gamma probe-directed biopsy of asymptomatic suspected bone metastases (Robinson, Preksto, & others) 1998;65:1426-32\*

**Bone neoplasms**

Parosteal osteosarcoma from a rib (Jatoi, Garcia-Moliner, & Daly) 1998;65:265-7,CR

**Bone transplantation**

One-stage sternal stenting with homograft bone after cardiac operation in pediatric patients (Chu, Chang, & others) 1998;65:846-7,CR

**Book reviews**

*Pathology of Lung Tumors*, edited by Corrin (Shields) 1998;65:514,RV

*Pediatric Cardiopulmonary Transplantation*, edited by Franco (Armitage) 1998;65:1295,RV

**Brachiocephalic trunk**

Concomitant occlusive disease of the coronary arteries and great vessels (Takach, Reul, & others) 1998;65:78-84\*

**Brachiocephalic veins**

Surgical management of tricuspid atresia and anomalous left brachiocephalic vein (Koutlas, Wernovsky, & others) 1998;65:1770-2,CR

**Bradycardia**

Bradycardia induced by intravascular versus direct stimulation of the vagus nerve (Thompson, Levett, & others) 1998;65:637-42\*

**Brain**

Anesthetic technique influences brain temperature during cardiopulmonary bypass in dogs (Wass, Cable, & others) 1998;65:454-60\*

Brain damage and myocardial dysfunction: protective effects of magnesium in the newborn pig (Caspi, Coles, & others) 1998;65:1730-6\*

Brain damage during cardiopulmonary bypass (Taylor) 1998;65:S20-6\*

Cardiopulmonary bypass time does not affect cerebral blood flow (Croughwell, Reves, & others) 1998;65:1226-30\*

Cardiotomy suction: a major source of brain lipid emboli during cardiopulmonary bypass (Brooker, Brown, & others) 1998;65:1651-5\*

Cerebral and systemic embolization during left ventricular support with the Novacor N100 device (Schmid, Weyand, & others) 1998;65:1703-10\*

Cerebral emboli and serum S100 $\beta$  during cardiac operations (Grocott, Croughwell, & others) 1998;65:1645-50\*



- Impact of retrograde cerebral perfusion with posterolateral thoracotomy on distal arch aneurysm repair (Yamashita, Okada, & others) 1998;65:955-60\*
- Neurologic sequelae associated with deep hypothermic circulatory arrest (Hickey) 1998;65:S65-70\*
- Significance of serum S100 release after coronary artery bypass grafting (Jönsson, Johnsson, & others) 1998;65:1639-44\*
- Breast**
- Partial breast necrosis after MIDCABG via small anterolateral thoracotomy (Har-Shai, Ammar, & others) 1998;65:553-5,CR
- Breast neoplasms**
- Bronchial carcinoid tumor metastatic to the breast (Wozniak & Naunheim) 1998;65:1148-9,CR
- Bronchi**
- Cartilage folding method for main bronchial stapling (Aoki, Ozeki, & others) 1998;65:1800-1,HW
- Endoscopic treatment of bronchopleural fistulas (Varoli, Roviario, & others) 1998;65:807-9\*
- Video-assisted modified Abruzzini technique for bronchopleural fistula repair (Spaggiari, Carbognani, & others) 1998;65:1198-9,CP; Reply (Brutel de la Riviere, Knaepen, & van Swieten) 1998;65:1199-200,CP
- Bronchial diseases**
- Broncholithiasis and thoracoabdominal actinomycosis from dropped gallstones (Noda, Soybel, & others) 1998;65:1465-7,CR
- Bronchial neoplasms**
- Bronchial carcinoid tumor metastatic to the breast (Wozniak & Naunheim) 1998;65:1148-9,CR
- Operative risk and prognostic factors of typical bronchial carcinoid tumors (Ducrocq, Thomas, & others) 1998;65:1410-4\*
- Bronchopulmonary sequestration**
- Long-term cardiovascular consequences of undiagnosed intralobar pulmonary sequestration (Fabre, Porte, & others) 1998;65:1144-6,CR
- Sequestration of the lung arising from the circumflex coronary artery (Temes, Talbot, & others) 1998;65:257-9,CR
- Bronchoscopy**
- Pathogenesis of systemic air embolism during bronchoscopic Nd:YAG laser operations (Tellides, Ugurlu, & others) 1998;65:930-4\*
- Calcinosis**
- Mitral valve replacement associated with massive left atrial calcification (Santini, Peranzoni, & Mazzucco) 1998;65:1456-8,CR
- Refined alpha aminooleic acid and experimental calcification in bioprostheses (Chanda, Kuribayashi, & Abe) 1998;65:888,CP
- Calcium**
- Adenosine prevents K<sup>+</sup>-induced Ca<sup>2+</sup> loading: insight into cardioprotection during cardioplegia (Jovanović, Lopez, & others) 1998;65:586-91,CV
- Calcium preconditioning in human myocardium (Cain, Meldrum, & others) 1998;65:1065-70\*
- Calculi**
- Broncholithiasis and thoracoabdominal actinomycosis from dropped gallstones (Noda, Soybel, & others) 1998;65:1465-7,CR
- Cantrell's syndrome**
- Cantrell's syndrome: a challenge to the surgeon (Vazquez-Jimenez, Muehler, & others) 1998;65:1178-85,CV
- Capillary permeability**
- Microvascular permeability of the non-heart-beating rabbit lung after warm ischemia and reperfusion: role of neutrophil elastase (Kishima, Takeda, & others) 1998;65:913-8\*
- Carcinoid tumor**
- Bronchial carcinoid tumor metastatic to the breast (Wozniak & Naunheim) 1998;65:1148-9,CR
- Operative risk and prognostic factors of typical bronchial carcinoid tumors (Ducrocq, Thomas, & others) 1998;65:1410-4\*
- Carcinoma**
- Esophageal carcinoma: depth of tumor invasion is predictive of regional lymph node status (Rice, Zuccaro, & others) 1998;65:787-92\*
- Carcinoma, non-small cell lung**
- Adrenalectomy for a solitary adrenal metastasis from lung cancer (Porte, Roumilhac, & others) 1998;65:331-5\*
- "Incomplete resection" in non-small cell lung cancer: need for a new definition (Lacasse, Bucher, & others) 1998;65:220-6\*
- Neoadjuvant and adjuvant trials in non-small cell lung cancer (Einhorn) 1998;65:208-11\*
- Survival in resected stage I lung cancer with residual tumor at the bronchial resection margin (Snijder, Brutel de la Riviere, & others) 1998;65:212-6\*
- Tumor angiogenesis as a prognostic marker in operable non-small cell lung cancer (Matsuyama, Chiba, & others) 1998;65:1405-9\*
- Cardiomyopathy, hypertrophic**
- Long-term follow-up in hypertrophic obstructive cardiomyopathy after septal myectomy (Schönbeck, Brunner-La Rocca, & others) 1998;65:1207-14\*
- Modified Konno-Rastan procedure for subaortic stenosis: indications, operative techniques, and results (Roughneen, DeLeon, & others) 1998;65:1368-76\*
- Cardiomyoplasty**
- Effects of cardiomyoplasty on right ventricular filling during volume loading (Toyoda, Okada, & others) 1998;65:1676-9\*
- Growth potential and left ventricular diastolic function in cardiomyoplasty (Misawa, Fuse, & others) 1998;65:1288-90\*
- Mechanisms of cardiomyoplasty; comparative effects of adynamic versus dynamic cardiomyoplasty (Mott, Oh, & others) 1998;65:1039-45\*
- Optimization of synchronization delay in latissimus dorsi dynamic cardiomyoplasty (Vural, Tasdemir, & others) 1998;65:1231-4\*
- Cardioplegic solutions**
- Effects of an angiotensin II antagonist on ischemic and non-ischemic isolated rat hearts (Paz, Gurevitch, & others) 1998;65:474-9\*
- Cardiopulmonary bypass**
- Accidental hyperperfusion during cardiopulmonary bypass: suggested safety features (Tempe & Khanna) 1998;65:306,CP
- Activation of hemostasis during cardiopulmonary bypass and pediatric aprotinin dosage (Mössinger & Dietrich) 1998;65:S45-51\*
- Acute normovolemic red cell exchange for cardiopulmonary bypass in sickle cell disease (Shulman, McQuitty, & others) 1998;65:1444-6,CR
- Alterations in renal microcirculation during cardiopulmonary bypass (Pathi, Morrison, & others) 1998;65:993-8\*

**Cardiopulmonary bypass (cont'd)**

- Anesthetic technique influences brain temperature during cardiopulmonary bypass in dogs (Wass, Cable, & others) 1998;65:454-60\*
- Aprotinin enhances the endogenous release of interleukin-10 after cardiac operations (Hill, Diego, & others) 1998;65:66-9\*
- Aprotinin versus lysine analogues: the debate continues (Royston) 1998;65:S9-19\*
- $\beta$ -blockade as an alternative to cardioplegic arrest during cardiopulmonary bypass (Warters, Allen, & others) 1998;65:961-6\*
- Brain damage during cardiopulmonary bypass (Taylor) 1998;65:S20-6\*
- Cardiopulmonary bypass circuit treated with surface-modifying additives: a clinical evaluation of blood compatibility (Gu, Boonstra, & others) 1998;65:1342-7\*
- Cardiopulmonary bypass time does not affect cerebral blood flow (Croughwell, Reves, & others) 1998;65:1226-30\*
- Cardiotomy suction: a major source of brain lipid emboli during cardiopulmonary bypass (Brooker, Brown, & others) 1998;65:1651-5\*
- Complement and contact activation during cardiovascular operations in infants (Sonntag, Dähnert, & others) 1998;65:525-31\*
- Computer-controlled cardiopulmonary bypass increases jugular venous oxygen saturation during rewarming (Mutch, Lefevre, & others) 1998;65:59-65\*
- Discussion 1998;65:S27-8,DI
- Conversion from routine cardiopulmonary bypass to centrifugal mechanical assist by transaortic inflow cannulation of the left ventricle (Kalangos, Murith, & others) 1998;65:1168-70,HW
- Effect of anticoagulation protocol on outcome in patients undergoing CABG with heparin-bonded cardiopulmonary bypass circuits (Aldea, O'Gara, & others) 1998;65:425-33\*
- Effects of cardiopulmonary bypass and use of modified ultrafiltration (Ungerleider) 1998;65:S35-9\*
- Effects of depletion of leukocytes and platelets on cardiac dysfunction after cardiopulmonary bypass (Chiba, Morioka, & others) 1998;65:107-13\*
- A feasible femoral cannulation method during cardiopulmonary bypass (Satta, Rimpiläinen, & others) 1998;65:1194,CP; Reply (Vander Salm) 1998;65:1194-5,CP
- Hyperglycemia during normothermic cardiopulmonary bypass: the role of the kidney (Braden, Cheema-Dhadli, & others) 1998;65:1588-93\*
- Inflammatory mediators in adults undergoing cardiopulmonary bypass: comparison of centrifugal and roller pumps (Ashraf, Butler, & others) 1998;65:480-4\*
- Introduction 1989;65:S1\*
- Jugular venous bulb oxygen saturation depends on blood pressure during cardiopulmonary bypass (Grubhofer, Lassnigg, & others) 1998;65:653-8\*
- Management of bleeding complications in redo cardiac operations (Smith) 1998;65:S2-8\*
- A method for perfusion of the leg during cardiopulmonary bypass via femoral cannulation (Hendrickson & Glower) 1998;65:1807-8,HW
- Platelet and neutrophil activation during cardiac surgical procedures: impact of cardiopulmonary bypass (Morse, Adams, & Magnani) 1998;65:691-5\*
- The platelet thrombin receptor and postoperative bleeding (Ferraris, Ferraris, & others) 1998;65:352-8\*

Port-Access coronary artery bypass grafting with the use of cardiopulmonary bypass and cardioplegic arrest (Reichensperner, Guliernos, & others) 1998;65:413-8\*

Reduction of allogeneic blood transfusions after open heart operations by lowering cardiopulmonary bypass prime volume (Shapira, Aldea, & others) 1998;65:724-30\*

Thromboxane production in human lung during cardiopulmonary bypass: beneficial effect of aspirin? (Erez, Erman, & others) 1998;65:101-6\*

Transition from cardiopulmonary bypass to the HeartMate left ventricular assist device (Tector, Kress, & others) 1998;65:643-6\*

**Cardiopulmonary bypass morbidity**

- Aprotinin versus lysine analogues: the debate continues (Royston) 1998;65:S9-19\*
- Brain damage during cardiopulmonary bypass (Taylor) 1998;65:S20-6\*
- Discussion 1998;65:S27-8,DI
- Introduction 1998;65:S1\*
- Management of bleeding complications in redo cardiac operations (Smith) 1998;65:S2-8\*

**Cardiovascular abnormalities**

- Reversal of pulmonary arteriovenous malformation after diversion of anomalous hepatic drainage (Lee, Menkis, & Rosenberg) 1998;65:848-9,CR
- Sequestration of the lung arising from the circumflex coronary artery (Temes, Talbot, & others) 1998;65:257-9,CR
- Should we address the course as well as the origin of a translocated anomalous coronary artery? (Black, McCrindle, & Freedom) 1998;65:248-50,CR
- Transesophageal echocardiography in an operation for pulmonary arteriovenous malformation (Almeida, Thomson, & others) 1998;65:267-8,CR

**Cardiovascular surgical procedures**

- Complement and contact activation during cardiovascular operations in infants (Sonntag, Dähnert, & others) 1998;65:525-31\*
- Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Matthew, Spotnitz, & others) 1998;65:592-3,UP
- Right parasternal incision: a uniform minimally invasive approach for valve operations (Lazzara & Kidwell) 1998;65:271-2,HW
- Right-sided partial sternotomy for minimally invasive valve operation: "open door method" (Kasegawa, Shimokawa, & others) 1998;65:569-70,HW
- Trends in the management of truncal valve insufficiency (McElhinney, Reddy, & others) 1998;65:517-24\*

**Cardiovascular system**

- The biology of estrogen-mediated repair of cardiovascular injury (Selzman, Whitehill, & others) 1998;65:868-74,CV

**Cartilage**

- Cartilage folding method for main bronchial stapling (Aoki, Ozeki, & others) 1998;65:1800-1,HW

**Case reports**

- Acute normovolemic red cell exchange for cardiopulmonary bypass in sickle cell disease (Shulman, McQuitty, & others) 1998;65:1444-6,CR
- Anastomosis of the left juxtaposed atrial appendages in a patient with tricuspid atresia (Kaneko, Okabe, & others) 1998;65:1783-4,CR
- Aneurysm of the left sinus of Valsalva producing aortic valve regurgitation and myocardial ischemia (Takahara, Sudo, & others) 1998;65:535-7,CR



- Aortocoronary bypass grafting with expanded polytetrafluoroethylene: 12-year patency (McLarty, Phillips, & others) 1998;65:1442-4,CR
- Biatial myxoma: a rare cardiac tumor (Peachell, Mullen, & others) 1998;65:1768-9,CR
- Blunt cardiac rupture caused by zip gun backfire (Fulton, De Groot, & others) 1998;65:837-9,CR
- Branch retinal artery occlusion from a retained left atrial catheter 21 years after operation (Drummond-Webb, Bokesch, & others) 1998;65:254-5,CR
- Bronchial carcinoid tumor metastatic to the breast (Wozniak & Naunheim) 1998;65:1148-9,CR
- Broncholithiasis and thoracoabdominal actinomycosis from dropped gallstones (Noda, Soybel, & others) 1998;65:1465-7,CR
- Catastrophic transcatheter baffle fenestration for failing Fontan physiology (Henneveld, Hutter, & others) 1998;65:268-70,CR
- Combined coronary bypass and liver transplantation: technical considerations (Massad, Benedetti, & others) 1998;65:1130-2,CR
- Combined heart and single-lung transplantation in complex congenital heart disease (Fann, Wilson, & others) 1998;65:823-5,CR
- Combined TMR and mitral valve replacement via left thoracotomy (Hughes, Donovan, & others) 1998;65:1141-3,CR
- Coronary artery aneurysm repaired with saphenous vein patch plasty (Moriyama, Hisatomi, & others) 1998;65:561-2,CR
- Delayed presentation of traumatic parasternal lung hernia (Jacka & Luison) 1998;65:1150-1,CR
- Division of the main pulmonary artery: suboptimal palliation for the patient with a univentricular heart (Wong & Beekman) 1998;65:1464-5,CR
- Esophageal compression by the aorta after arterial switch (McElhinney, Reddy, & others) 1998;65:246-8,CR
- Extended aortic arch atherectomy (Khaki, Ravichandran, & others) 1998;65:255-7,CR
- Extubation of the patient after a difficult intubation (Kumar & Lazar) 1998;65:1778-80,CR
- Four multiple primary malignant neoplasms of the aerodigestive tract (Keshishian, Sarkar, & others) 1998;65:252-4,CR
- Fungal purulent constrictive pericarditis in a heart transplant patient (Canver, Patel, & others) 1998;65:1792-4,CR
- Giant solitary fibrous tumor of the pleura (Khan, Rahman, & others) 1998;65:1461-4,CR
- Heterotopic pancreas of the esophagus associated with a rare type of esophageal atresia (Yamagiwa, Obata, & others) 1998;65:1143-4,CR
- Histologic findings of transmyocardial laser channels after two hours (Lutter, Schwarzkopf, & others) 1998;65:1437-9,CR
- Hybrid myocardial revascularization after previous left pneumonectomy (Soltanian, Sanders, & others) 1998;65:259-60,CR
- Idiopathic saccular azygos vein aneurysm (Watanabe, Kusajima, & others) 1998;65:1459-61,CR
- Induced hypothermia in critical respiratory failure after lung transplantation (Eriksson & Steen) 1998;65:827-9,CR
- Inflammatory aneurysm of the ascending aorta (Künzli, von Segesser, & others) 1998;65:1132-3,CR
- Intraaortic balloon pump after treatment of anomalous origin of left coronary artery (Pozzi, Santoro, & Makundan) 1998;65:555-7,CR
- Isolated right ventricular hypoplasia: intraoperative balloon occlusion test (Goh, Sasajima, & others) 1998;65:551-3,CR
- Large eventration of diaphragm in an elderly patient treated with emergency plication (Watanabe, Shimokawa, & others) 1998;65:1776-7,CR
- The large window ductus: a surgical trap (Grünenfelder, Bartram, & others) 1998;65:1790-1,CR
- A late complication of tuberculous pericarditis after partial pericardial resection (Gregory, Connery, & Anagnostopoulos) 1998;65:542-4,CR
- Long-term cardiovascular consequences of undiagnosed intralobar pulmonary sequestration (Fabre, Porte, & others) 1998;65:1144-6,CR
- Lung herniation secondary to minimally invasive direct coronary artery bypass grafting (Deeik, Memon, & Sugimoto) 1998;65:1772-4,CR
- Lung transplantation for primary pulmonary hypertension and giant pulmonary artery aneurysm (Wekerle, Klepetko, & others) 1998;65:825-7,CR
- Management of the atherosclerotic ascending aorta with endoaortic occlusion (Liddicoat, Doty, & Stuart) 1998;65:1133-5,CR
- MIDCABG followed by a gastrointestinal operation in the same anesthetic setting (Zolfaghari & Pfister) 1998;65:1452-3,CR
- Minimally invasive bilateral internal mammary artery bypass grafting (Gulielmos, Dangel, & Schüller) 1998;65:1774-6,CR
- Minimally invasive diaphragm plication in an infant (Van Smith, Jacobs, & Burke) 1998;65:842-4,CR
- Mitral valve replacement associated with massive left atrial calcification (Santini, Peranzoni, & Mazzucco) 1998;65:1456-8,CR
- Modified repair of mixed anomalous pulmonary venous connection (van Son, Hambsch, & Mohr) 1998;65:1441-2,CR
- Mycotic aneurysm of the left coronary artery (Matsumoto, Konishi, & others) 1998;65:841-2,CR
- Natural history of a ventriculoatrial fistula after a gunshot injury in 1945 (Selinger, Werner, & others) 1998;65:1137-8,CR
- Needle embolus causing cardiac puncture and chronic constrictive pericarditis (LeMaire, Wall, & Mattox) 1998;65:1786-7,CR
- Obstructive rhabdomyoma and univentricular physiology: a rare combination (Dyamenahalli, Black, & others) 1998;65:835-7,CR
- One-stage repair of interrupted aortic arch and aortopulmonary window (Hata, Shiono, & others) 1998;65:829-31,CR
- One-stage sternal stenting with homograft bone after cardiac operation in pediatric patients (Chu, Chang, & others) 1998;65:846-7,CR
- Parosteal osteosarcoma from a rib (Jatoi, Garcia-Moliner, & Daly) 1998;65:265-7,CR
- Partial breast necrosis after MIDCABG via small anterolateral thoracotomy (Har-Shai, Ammar, & others) 1998;65:553-5,CR
- A pedunculated intraluminal foregut reduplication cyst of the proximal esophagus (Craig, Wallace, & others) 1998;65:1777-8,CR
- Percutaneous placement of tracheal T tube (Wood, Reynolds, & Vallières) 1998;65:557-8,CR
- Postsegmentectomy pseudotumor of the lung (Grismer, Schaefer, & Read) 1998;65:243-5,CR
- Preoperative identification and operative management of intraatrial extension of lung tumors (Heslin, Casper, & others) 1998;65:544-6,CR

## Case reports (cont'd)

- Primary malignant melanoma of the trachea (Duarte, Gal, & Mansour) 1998;65:559-60,CR
- Pulmonary vein injury through repetitive clip friction: an unusual cause of hemothorax (Sirbu, Herse, & others) 1998;65:548-50,CR
- Reconstruction of supraaortic stenosis with autologous pulmonary artery (Al-Halees, Prabhakar, & Galal) 1998;65:532-4,CR
- Repair of aortico-left ventricular tunnel originating from the left aortic sinus (Michielon, Sorbara, & Casarotto) 1998;65:1780-3,CR
- Repair of mitral valve and subaortic mycotic aneurysm in a child with endocarditis (Frank, Mavroudis, & others) 1998;65:1788-90,CR
- Repair of ruptured anastomotic aneurysm: elephant trunk technique after endovascular covered stents (Ezure, Kotsuka, & others) 1998;65:241-3,CR
- Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998;65:1135-7,CR
- Resection of a chest chondrosarcoma invading the spine and the aorta (Noirhomme, d'Udekem, & others) 1998;65:534-5,CR
- Resection of a pulmonary malignancy invading the intrapericardial inferior vena cava (Roberts, Abbott, & others) 1998;65:263-5,CR
- Reversal of pulmonary arteriovenous malformation after diversion of anomalous hepatic drainage (Lee, Menkis, & Rosenberg) 1998;65:848-9,CR
- Reversal of renal failure and paraplegia after thoracoabdominal aneurysm repair (Widmann, DeLucia, & others) 1998;65:1153-5,CR
- Right atrial isolation for atrial fibrillation associated with atrial septal defect (Harada, Ida, & Ikeshita) 1998;65:1766-8,CR
- Right atrial metastatic melanoma in a patient with transient ischemic attacks (Prabhakar, Vasilakis, & others) 1998;65:844-6,CR
- Right ventricular dysplasia may pose risk of ventricular rupture after cardiac operations (Asplund, Taylor, & Ratliff) 1998;65:1146-8,CR
- Right ventricular infarction during left ventricular assist system support (McBride, Ruggiero, & others) 1998;65:839-41,CR
- Right ventricular obstruction by tricuspid pouch in simple ventricular septal defect (Kaneko, Okabe, & others) 1998;65:550-1,CR
- Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998;65:1450-2,CR
- Saphenous vein graft growth 13 years after coronary bypass in a child with Kawasaki disease (El-Khoury, Danilowicz, & others) 1998;65:1127-30,CR
- Saphenous vein graft pseudoaneurysm rupture after coronary artery bypass grafting (Mohara, Konishi, & others) 1998;65:831-2,CR
- Sequestration of the lung arising from the circumflex coronary artery (Temes, Talbot, & others) 1998;65:257-9,CR
- Should we address the course as well as the origin of a translocated anomalous coronary artery? (Black, McCrindle, & Freedom) 1998;65:248-50,CR
- Simultaneous total aortic replacement without a sternotomy incision (Shiia, Yasuda, & others) 1998;65:546-8,CR
- Stentless xenograft repair of the dissected aortic root (Westaby, Katsumata, & others) 1998;65:1448-50,CR
- Successful thrombolysis of an occluded modified Blalock shunt three days after operation (Malm, Holmqvist, & others) 1998;65:1453-5,CR
- Surgical management of tricuspid atresia and anomalous left brachiocephalic vein (Koutlas, Wernovsky, & others) 1998;65:1770-2,CR
- Surgical palliation of truncus arteriosus with mitral atresia and hypoplastic left ventricle (Michelfelder, Zales, & Jacobs) 1998;65:260-3,CR
- Surgical treatment of lipomatous hypertrophy of the interatrial septum (Alcocer, Katz, & Hattler) 1998;65:1784-6,CR
- Surgical treatment of the redundant interposed colon after retrosternal esophagoplasty (Bonavina, Chella, & others) 1998;65:1446-8,CR
- Temporary aorto-pulmonary shunt for pulmonary hypertension after truncus arteriosus repair (Katsumata, Shinfield, & Westaby) 1998;65:1764-5,CR
- Thoracoscopic transmyocardial laser revascularization (Horvath) 1998;65:1439-41,CR
- Transesophageal echocardiography in an operation for pulmonary arteriovenous malformation (Almeida, Thomson, & others) 1998;65:267-8,CR
- Transmyocardial laser revascularization in allograft coronary artery disease (Frazier, Kadipasaoglu, & others) 1998;65:1138-41,CR
- Transthoracic, transdiaphragmatic excision of simultaneous lung and adrenal lesions (Flores, Goldstein, & others) 1998;65:833-5,CR
- Tricuspid valve closure for neonatal Ebstein's anomaly (Endo, Ohmi, & others) 1998;65:540-2,CR
- Tricuspid valve repair in a mountaineer (Marchbank, Parums, & Westaby) 1998;65:537-9,CR
- Two-stage correction of transposition of great arteries with complete atrioventricular canal (Sakamoto, Galletti, & others) 1998;65:250-2,CR
- Two-stage repair for aortic regurgitation with interrupted aortic arch (Ogino, Miki, & others) 1998;65:1151-3,CR
- Unruptured aneurysm of the sinus of Valsalva into the pulmonary artery (Shiraishi, Watarida, & others) 1998;65:1458-9,CR
- An unusual cause of hemoptysis (Urbat, Haapaniemi, & others) 1998;65:539-40,CR
- Video-assisted repair of a traumatic intercostal pulmonary hernia (Reardon, Fabré, & others) 1998;65:1155-7,CR

## Catheter ablation

- Radiofrequency and cryoablation of atrial fibrillation in patients undergoing valvular operations (Chen, Guo, & others) 1998;65:1666-72\*

## Catheterization

- Cuffed venous return cannulas in minimally invasive cardiac operations (Al-Ebrahim & El Shafei) 1998;65:1509,CP; Reply (Benetti) 1998;65:1509,CP
- Echocardiography allows safer venous cannulation during excision of large right atrial masses (Rousou, Tighe, & others) 1998;65:403-6\*
- A feasible femoral cannulation method during cardiopulmonary bypass (Satta, Rimpiläinen, & others) 1998;65:1194,CP; Reply (Vander Salm) 1998;65:1194-5,CP
- A method for perfusion of the leg during cardiopulmonary bypass via femoral cannulation (Hendrickson & Glower) 1998;65:1807-8,HW
- Transapical aortic cannulation in pediatric patients (Kapadia & Russo) 1998;65:888,CP; Reply (Watanabe) 1998;65:888-9,CP



**Catheterization, Swan-Ganz**

Removal of Swan-Ganz catheter via a small right anterior mediastinotomy (Duranni, Grignani, & Sim) 1998;65:1839,CP

**Cell adhesion molecules**

Are circulating adhesion molecules specifically changed in cardiac surgical patients? (Boldt, Kumle, & others) 1998;65:608-14\*

**Cerebral anoxia**

Jugular venous bulb oxygen saturation depends on blood pressure during cardiopulmonary bypass (Grubhofer, Lassnigg, & others) 1998;65:653-8\*

**Cerebral embolism and thrombosis**

Cerebral and systemic embolization during left ventricular support with the Novacor N100 device (Schmid, Weyand, & others) 1998;65:1703-10\*

Cerebral emboli and serum S100 $\beta$  during cardiac operations (Grocott, Croughwell, & others) 1998;65:1645-50\*

**Cerebral ischemia, transient**

Right atrial metastatic melanoma in a patient with transient ischemic attacks (Prabhakar, Vasilakis, & others) 1998;65:844-6,CR

**Cerebrovascular disorders**

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**Chemotherapy, adjuvant**

Neoadjuvant and adjuvant trials in non-small cell lung cancer (Einhorn) 1998;65:208-11\*

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**Child**

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Broncholithiasis and thoracoabdominal actinomycosis from dropped gallstones (Noda, Soybel, & others) 1998;65:1465-7,CR

**Chondrosarcoma**

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**Collagen**

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Monocyte tissue factor expression and ongoing complement generation in ventricular assist device patients (Wilhelm, Ristich, & others) 1998;65:1071-6\*

Reduction of the inflammatory response in patients undergoing minimally invasive coronary artery bypass grafting (Gu, Mariani, & others) 1998;65:420-4\*

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Coronary artery aneurysm repaired with saphenous vein patch plasty (Moriyama, Hisatomi, & others) 1998;65:561-2,CR

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- Comprehensive multimodality blood conservation: 100 consecutive CABG operations without transfusion (Helm, Rosengart, & others) 1998;65:125-36\*
- Concomitant occlusive disease of the coronary arteries and great vessels (Takach, Reul, & others) 1998;65:78-84\*
- Coronary artery bypass grafting: three-day discharge (Gill) 1998;65:1834,CP; Reply (Ott) 1998;65:1834-5,CP
- A cost-effective retractor and heart stabilizer for minimal-access coronary bypass (Rousou, Engelman, & others) 1998;65:1479-80,HW
- Demonstration of ischemia-reperfusion injury separate from postoperative infarction in coronary artery bypass graft patients (Fransen, Maessen, & others) 1998;65:48-53\*
- Early detection of cardiac damage with heart fatty acid-binding protein after cardiac operations (Suzuki, Sawa, & others) 1998;65:54-8\*
- Effect of anticoagulation protocol on outcome in patients undergoing CABG with heparin-bonded cardiopulmonary bypass circuits (Aldea, O'Gara, & others) 1998;65:425-33\*
- Expression of vascular adhesion molecules in saphenous vein coronary bypass grafts (Chester, Morrison, & Yacoub) 1998;65:1685-9\*
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- Minimal access surgical techniques in coronary artery bypass grafting for triple-vessel disease (Lin, Chang, & others) 1998;65:407-12\*
- Minimally invasive axillary-coronary artery bypass (Morishita, Shiiku, & Abe) 1998;65:1196-7,CP; Reply (Knight) 1998;65:1197,CP
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- Coronary circulation**
- Vertical displacement of the beating heart by the Octopus Tissue Stabilizer: influence on coronary flow (Gründeman, Borst, & others) 1998;65:1348-52\*
- Coronary disease**
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- Streaming video for *The Annals* Internet readers (Greene) 1998;65:1188-9,CN
- Current reviews**
- Adenosine prevents K<sup>+</sup>-induced Ca<sup>2+</sup> loading: insight into cardioprotection during cardioplegia (Jovanović, Lopez, & others) 1998;65:586-91,CV
- The biology of estrogen-mediated repair of cardiovascular injury (Selzman, Whitehill, & others) 1998;65:868-74,CV
- Cantrell's syndrome: a challenge to the surgeon (Vazquez-Jimenez, Muehler, & others) 1998;65:1178-85,CV
- Descending cervical mediastinitis (Kiernan, Hernandez, & others) 1998;65:1483-8,CV
- Diagnosis and management of traumatic aorto-right ventricular fistulas (Samuels, Kaufman, & others) 1998;65:288-92,CV
- Positron emission tomography in lung cancer (Lowe & Naunheim) 1998;65:1821-9,CV
- Curriculum**
- Retooling thoracic surgery education for the 21st century (Baumgartner) 1998;65:13-6\*
- Cyclic GMP**
- Atrial natriuretic peptide-induced release of cyclic guanosine monophosphate by coronary bypass grafts (Bonatti, Dichtl, & others) 1998;65:1621-4\*
- Cardioprotection by activation of NO/cGMP pathway after cardioplegic arrest and 8-hour storage (Ali, Gandhi, & others) 1998;65:1303-9\*
- Cyclosporine**
- Induction of tolerance in rodent cardiac allotransplantation using an MHV class I-derived peptide and cyclosporin A (Masroor, Itescu, & others) 1998;65:144-8\*
- Cytokines**
- Complement activation and cytokine generation after modified Fontan procedure (Mainwaring, Lamberti, & Hugli) 1998;65:1715-20\*
- Extracorporeal membrane oxygenation support and cytokines (Kawahito, Misawa, & Fuse) 1998;65:1192-3,CP
- Debridement**
- Video-assisted thoracoscopic surgery for fibrinopurulent pleural empyema in 67 patients (Striffeler, Gugger, & others) 1998;65:319-23\*
- Defibrillators**
- Implantable cardioverter-defibrillators in children: a single-institutional experience (Wilson, Greer, & Grubb) 1998;65:775-8\*
- Deglutition disorders**
- Silent aspiration after coronary artery bypass grafting (Harrington, Duckworth, & others) 1988;65:1599-603\*
- Diaphragm**
- Minimally invasive diaphragm plication in an infant (Van Smith, Jacobs, & Burke) 1998;65:842-4,CR
- Diaphragmatic eventration**
- Large eventration of diaphragm in an elderly patient treated with emergency plication (Watanabe, Shimokawa, & others) 1998;65:1776-7,CR
- Diastole**
- Growth potential and left ventricular diastolic function in cardiomyoplasty (Misawa, Fuse, & others) 1998;65:1288-90\*
- Retrograde coronary perfusion: effects on iatrogenic edema and diastolic properties (Dean, Jia, & others) 1998;65:449-53\*
- Digestive system surgical procedures**
- MIDCABG followed by a gastrointestinal operation in the same anesthetic setting (Zolfaghari & Pfister) 1998;65:1452-3,CR
- Diltiazem**
- Intravenous diltiazem and acute renal failure after cardiac operations (Young, Diab, & Kirsh) 1998;65:1316-9\*
- Dipyridamole**
- Aprotinin and dipyridamole for safe reduction of postoperative blood loss (Cohen, Ivanov, & others) 1998;65:674-83\*
- Dipyridamole echocardiography test**
- Preoperative assessment of coronary artery disease in aortic stenosis: a dipyridamole echocardiographic study (Maffei, Baroni, & others) 1998;65:397-402\*

**Drainage**

Autoblood plus OK432 pleurodesis with open drainage for persistent air leak after lobectomy (Yokomise, Satoh, & others) 1998;65:563-5,HW

Haemo-glyde coated chest drainage tubes (Kolvekar, Finch, & others) 1998;65:898-9,CP

Reversal of pulmonary arteriovenous malformation after diversion of anomalous hepatic drainage (Lee, Menkis, & Rosenberg) 1998;65:848-9,CR

**Ductus arteriosus, patent**

The large window ductus: a surgical trap (Grünenfelder, Bartram, & others) 1998;65:1790-1,CR

**Ebstein's anomaly**

Tricuspid annuloplasty and ventricular plication for Ebstein's malformation (Vargas, Mengo, & others) 1998;65:1755-7\*

Tricuspid valve closure for neonatal Ebstein's anomaly (Endo, Ohmi, & others) 1998;65:540-2,CR

**Echocardiography**

Echocardiography allows safer venous cannulation during excision of large right atrial masses (Rousou, Tighe, & others) 1998;65:403-6\*

Preoperative assessment of coronary artery disease in aortic stenosis: a dipyridamole echocardiographic study (Maffei, Baroni, & others) 1998;65:397-402\*

Time to learn echocardiography (Izzat & Yim) 1998;65:894,CP

**Echocardiography, transesophageal**

Accurate localization of mitral regurgitant defects using multiplane transesophageal echocardiography (Foster, Isselbacher, & others) 1998;65:1025-31\*

Cosgrove-Edwards mitral ring dynamics measured with transesophageal three-dimensional echocardiography (Dall'Agata, Taams, & others) 1998;65:485-90\*

Transesophageal echocardiography in an operation for pulmonary arteriovenous malformation (Almeida, Thomson, & others) 1998;65:267-8,CR

**Edema, cardiac**

Retrograde coronary perfusion: effects on iatrogenic edema and diastolic properties (Dean, Jia, & others) 1998;65:449-53\*

**Editorials**

The 50th anniversary of mitral valve surgery (Rainer) 1998;65:1519,ED

Globalization (Replogle) 1998;65:901-2,ED

International aspects of cardiac surgery (Pezzella) 1998;65:903-4,ED

**Electric stimulation**

Bradycardia induced by intravascular versus direct stimulation of the vagus nerve (Thompson, Levett, & others) 1998;65:637-42\*

Optimization of synchronization delay in latissimus dorsi dynamic cardiomyoplasty (Vural, Tasdemir, & others) 1998;65:1231-4\*

**Electrocoagulation**

Use of an ultrasonic scalpel as an alternative to electrocautery in patients with pacemakers (Epstein, Mayer, & Duncan) 1998;65:1802-4,HW

**Electrophysiology**

Arrest duration influences postcardioplegia electrophysiologic recovery and reperfusion arrhythmias (Murrah, Ferguson, & others) 1998;65:1003-8\*

**Embolism**

Cardiotomy suction: a major source of brain lipid emboli during cardiopulmonary bypass (Brooker, Brown, & others) 1998;65:1651-5\*

Cerebral and systemic embolization during left ventricular support with the Novacor N100 device (Schmid, Weyand, & others) 1998;65:1703-10\*

Cerebral emboli and serum S100 $\beta$  during cardiac operations (Grocott, Croughwell, & others) 1998;65:1645-50\*

Needle embolus causing cardiac puncture and chronic constrictive pericarditis (LeMaire, Wall, & Mattox) 1998;65:1786-7,CR

Posterior distribution of infarcts in strokes related to cardiac operations (Barbut, Grassineau, & others) 1998;65:1656-9\*

Size distribution of aortic emboli (Spencer) 1998;65:598-9,CP

**Embolism, air**

Pathogenesis of systemic air embolism during bronchoscopic Nd:YAG laser operations (Tellides, Ugurlu, & others) 1998;65:930-4\*

**Emergency treatment**

Abciximab and excessive bleeding in patients undergoing emergency cardiac operations (Gammie, Zenati, & others) 1998;65:465-9\*

Large eventration of diaphragm in an elderly patient treated with emergency plication (Watanabe, Shimokawa, & others) 1998;65:1776-7,CR

**Empyema, pleural**

Open-window thoracostomy and thoracomyoplasty to manage chronic pleural empyema (García-Yuste, Ramos, & others) 1998;65:818-22\*

Video-assisted thoracoscopic surgery for fibrinopurulent pleural empyema in 67 patients (Striffeler, Gugger, & others) 1998;65:319-23\*

**Endarterectomy**

Left anterior descending endarterectomy and internal thoracic artery bypass for diffuse coronary disease (Gill, Beanlands, & others) 1998;65:659-62\*

**Endocardial cushion defects**

Two-stage correction of transposition of great arteries with complete atrioventricular canal (Sakamoto, Galletti, & others) 1998;65:250-2,CR

**Endocarditis**

Conservative operation for infective endocarditis of the mitral valve (Lee, Shapiro, and Wells) 1998;65:1087-92\*

Operation for infective endocarditis: results after implantation of mechanical valves (Bauernschmitt, Jakob, & others) 1998;65:359-64\*

Repair of mitral valve and subaortic mycotic aneurysm in a child with endocarditis (Frank, Mavroudis, & others) 1998;65:1788-90,CR

Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998;65:1450-2,CR

**Endoscopy**

Endoscopic treatment of bronchopleural fistulas (Varoli, Roviario, & others) 1998;65:807-9\*

Resection with curative intent after endoscopic treatment of airway obstruction (Daddi, Puma, & others) 1998;65:203-7\*

**Endothelium**

Endothelial-dependent dynamic and antithrombotic properties of aortic and pulmonary valves (Pompilio, Rossoni, & others) 1998;65:986-92\*

Endothelial-related coagulation in pediatric surgery (Boldt) 1998;65:S56-9\*

Hypomagnesemia inhibits nitric oxide release from coronary endothelium: protective role of magnesium infusion after cardiac operations (Pearson, Evora, & others) 1998;65:967-72\*



### Enzymes

- Levels of troponin I and cardiac enzymes after reinfusion of shed blood in coronary operations (De Paulis, Cola-grande, & others) 1998;65:1617-20\*

### Epithelial cells

- Epithelial cell hyperproliferation after biliopancreatic reflux into the esophagus of rats (Pera, Grande, & others) 1998;65:779-86\*

### Esophageal and gastric varices

- Improvement in esophageal varices and liver histology post-operatively in Budd-Chiari syndrome (Kuniyoshi, Koja, & others) 1998;65:1711-4\*

### Esophageal atresia

- Heterotopic pancreas of the esophagus associated with a rare type of esophageal atresia (Yamagiwa, Obata, & others) 1998;65:1143-4,CR

### Esophageal cyst

- A pedunculated intraluminal foregut reduplication cyst of the proximal esophagus (Craig, Wallace, & others) 1998;65:1777-8,CR

### Esophageal neoplasms

- Esophageal carcinoma: depth of tumor invasion is predictive of regional lymph node status (Rice, Zuccaro, & others) 1998;65:787-92\*
- Esophageal carcinoma: surgery without preoperative adjuvant chemotherapy (Mansour, Thourani, & Cooper) 1998;65:1492-3,UP
- Multiple primary cancers in esophageal squamous cell carcinoma: incidence and implications (Poon, Law, & others) 1998;65:1529-34\*
- Prognosis of adenocarcinoma arising in Barrett's esophagus (Hoff, Sawyers, & others) 1998;65:176-80\*
- Trimodality therapy for esophageal cancer (Krasna) 1998;65:899-900,CP; Reply (Jones) 1998;65:900,CP

### Esophageal perforation

- Esophageal perforation (Wetstein, Duerr, & Wagner) 1998;65:875-6,CR
- The role of esophagectomy in the management of esophageal perforations (Altorjay, Kiss, & others) 1998;65:1433-5\*

### Esophagectomy

- The role of esophagectomy in the management of esophageal perforations (Altorjay, Kiss, & others) 1998;65:1433-5\*

### Esophagoplasty

- Surgical treatment of the redundant interposed colon after retrosternal esophagoplasty (Bonavina, Chella, & others) 1998;65:1446-8,CR

### Esophagus

- Comparison of conventional and wire mesh expandable prostheses and surgical bypass in patients with malignant esophagorespiratory fistulas (Low & Kozarek) 1998;65:919-23\*
- Epithelial cell hyperproliferation after biliopancreatic reflux into the esophagus of rats (Pera, Grande, & others) 1998;65:779-86\*
- Esophageal compression by the aorta after arterial switch (McElhinney, Reddy, & others) 1998;65:246-8,CR
- Heterotopic pancreas of the esophagus associated with a rare type of esophageal atresia (Yamagiwa, Obata, & others) 1998;65:1143-4,CR
- Terminalized semimechanical side-to-side suture technique for cervical esophagogastronomy (Collard, Romagnoli, & others) 1998;65:814-7\*

### Estrogens

- The biology of estrogen-mediated repair of cardiovascular injury (Selzman, Whitehill, & others) 1998;65:868-74,CV

### Exchange transfusion, whole blood

- Acute normovolemic red cell exchange for cardiopulmonary bypass in sickle cell disease (Shulman, McQuitty, & others) 1998;65:1444-6,CR

### Extracorporeal membrane oxygenation

- Extracorporeal membrane oxygenation support and cytokines (Kawahito, Misawa, & Fuse) 1998;65:1192-3,CP
- Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius) 1998;65:877-8,UP

### Eye

- Branch retinal artery occlusion from a retained left atrial catheter 21 years after operation (Drummond-Webb, Bokesch, & others) 1998;65:254-5,CR

### Fatty acids

- Demonstration of ischemia-reperfusion injury separate from postoperative infarction in coronary artery bypass graft patients (Fransen, Maessen, & others) 1998;65:48-53\*
- Early detection of cardiac damage with heart fatty acid-binding protein after cardiac operations (Suzuki, Sawa, & others) 1998;65:54-8\*
- Glucose and fatty acid oxidation by the in situ dog heart during experimental cooling and rewarming (Steigen, Tveita, & others) 1998;65:1235-40\*

### Femoral artery

- A feasible femoral cannulation method during cardiopulmonary bypass (Satta, Rimpiläinen, & others) 1998;65:1194,CP; Reply (Vander Salm) 1998;65:1194-5,CP
- A method for perfusion of the leg during cardiopulmonary bypass via femoral cannulation (Hendrickson & Glower) 1998;65:1807-8,HW

### Fibrin tissue adhesive

- Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Matthew, Spotnitz, & others) 1998;65:592-3,UP

### Fibrinolysis

- Activation of coagulation and fibrinolysis during cardiothoracic operations (Hunt, Parratt, & others) 1998;65:712-8\*

### Fibroblast growth factor, basic

- Therapeutic angiogenesis with basic fibroblast growth factor: technique and early results (Sellke, Laham, & others) 1998;65:1540-4\*

### Fistula

- Comparison of conventional and wire mesh expandable prostheses and surgical bypass in patients with malignant esophagorespiratory fistulas (Low & Kozarek) 1998;65:919-23\*
- Diagnosis and management of traumatic aorto-right ventricular fistulas (Samuels, Kaufman, & others) 1998;65:288-92,CV
- Endoscopic treatment of bronchopleural fistulas (Varoli, Roviato, & others) 1998;65:807-9\*
- Natural history of a ventriculoatrial fistula after a gunshot injury in 1945 (Selinger, Werner, & others) 1998;65:1137-8,CR
- Video-assisted modified Abruzzini technique for bronchopleural fistula repair (Spaggiari, Carbognani, & others) 1998;65:1198-9,CP; Reply (Brutel de la Riviere, Knaepen, & van Swieten) 1998;65:1199-200,CP

### Flail chest

- Use of 3.5-mm acetabular reconstruction plates for internal fixation of flail chest injuries (Oyarzun, Bush, & others) 1998;65:1471-4,HW

**Fontan procedure**

- Catastrophic transcatheter baffle fenestration for failing Fontan physiology (Henneveld, Hutter, & others) 1998;65:268-70,CR
- Clinical results of the staged Fontan procedure in high-risk patients (Masuda, Kado, & others) 1998;65:1721-5\*
- Complement activation and cytokine generation after modified Fontan procedure (Mainwaring, Lamberti, & Hugli) 1998;65:1715-20\*
- Hemodynamic effects of human atrial natriuretic peptide after modified Fontan procedure (Hiramatsu, Imai, & others) 1998;65:761-4\*
- One-lung Fontan operation: hemodynamics and surgical outcome (Zachary, Jacobs, & others) 1998;65:171-5\*

**Foundation report**

- Report on "Understanding the New World of Health Care" 1998;65:1832,RE

**Fracture fixation, internal**

- Use of 3.5-mm acetabular reconstruction plates for internal fixation of flail chest injuries (Oyarzun, Bush, & others) 1998;65:1471-4,HW

**Gastroepiploic artery**

- Minimally invasive coronary artery bypass grafting using the right gastroepiploic artery (Voutilainen, Verkkala, & others) 1998;65:444-8\*

**Gastrointestinal diseases**

- MIDCABG followed by a gastrointestinal operation in the same anesthetic setting (Zolfaghari & Pfister) 1998;65:1452-3,CR

**Gene transfer**

- Gene transfer into the donor heart during cold preservation for heart transplantation (Gojo, Niwaya, & others) 1998;65:647-52\*

**Giant lymph node hyperplasia**

- Thoracic Castleman's disease: implications for resection (Pandya, Baumgartner, & others) 1998;65:302-3,CP; Reply (Kim) 1998;65:303,CP

**Glucose**

- Glucose and fatty acid oxidation by the in situ dog heart during experimental cooling and rewarming (Steigen, Tveita, & others) 1998;65:1235-40\*
- Hyperglycemia during normothermic cardiopulmonary bypass: the role of the kidney (Braden, Cheema-Dhadli, & others) 1998;65:1588-93\*

**Graft occlusion, vascular**

- Successful thrombolysis of an occluded modified Blalock shunt three days after operation (Malm, Holmqvist, & others) 1998;65:1453-5,CR

**Guanosine monophosphate**

- Atrial natriuretic peptide-induced release of cyclic guanosine monophosphate by coronary bypass grafts (Bonatti, Dichtl, & others) 1998;65:1621-4\*
- Cardioprotection by activation of NO/cGMP pathway after cardioplegic arrest and 8-hour storage (Ali, Gandhi, & others) 1998;65:1303-9\*

**Hand**

- Radial artery use in bypass grafting does not change digital blood flow or hand function (Dumanian, Segalman, & others) 1998;65:1284-7\*

**Health care quality, access, and evaluation**

- Report on "Understanding the New World of Health Care" 1998;65:1832,RE

**Heart**

- Needle embolus causing cardiac puncture and chronic constrictive pericarditis (LeMaire, Wall, & Mattox) 1998;65:1786-7,CR

**Heart arrest, induced**

- Adenosine prevents K<sup>+</sup>-induced Ca<sup>2+</sup> loading: insight into cardioprotection during cardioplegia (Jovanović, Lopez, & others) 1998;65:586-91,CV

- Aortic valve operations under deep hypothermic circulatory arrest for the porcelain aorta: "no-touch" technique (Byrne, Aranki, & Cohn) 1998;65:1313-5\*

- Arrest duration influences postcardioplegia electrophysiologic recovery and reperfusion arrhythmias (Murrah, Ferguson, & others) 1998;65:1003-8\*

- $\beta$ -blockade as an alternative to cardioplegic arrest during cardiopulmonary bypass (Warters, Allen, & others) 1998;65:961-6\*

- Cardioprotection by activation of NO/cGMP pathway after cardioplegic arrest and 8-hour storage (Ali, Gandhi, & others) 1998;65:1303-9\*

- Effect of pressure on myocardial function after 6-hour preservation with blood cardioplegia (Li, Sullivan, & others) 1998;65:115-24\*

- Effects of an angiotensin II antagonist on ischemic and non-ischemic isolated rat hearts (Paz, Gurevitch, & others) 1998;65:474-9\*

- Intermittent antegrade tepid versus cold blood cardioplegia in elective myocardial revascularization (Fiore, Swartz, & others) 1998;65:1559-65\*

- Minimally diluted tepid blood cardioplegia (Hayashida, Isomura, & others) 1998;65:615-21\*

- Myocardial distribution of antegrade cold crystalloid and tepid blood cardioplegia (Duarte, Shearer, & others) 1998;65:1610-6\*

- Myocardial oxygenation during terminal warm blood cardioplegia (Kawasuji, Tomita, & others) 1998;65:1260-4\*

- Neurologic sequelae associated with deep hypothermic circulatory arrest (Hickey) 1998;65:S65-70\*

- Normothermic versus hypothermic hyperkalemic cardioplegia: effects on myocyte contractility (Houck, Kribbs, & others) 1998;65:1279-83\*

- Port-Access coronary artery bypass grafting with the use of cardiopulmonary bypass and cardioplegic arrest (Reichenspurner, Guliemos, & others) 1998;65:413-8\*

- Prospective, randomized clinical study of ischemic preconditioning as an adjunct to intermittent cold blood cardioplegia (Illes & Swoyer) 1998;65:748-53\*

- Rapid cooling contracture with cold cardioplegia (Zwart) 1998;65:891-2,CP

- Retrograde coronary perfusion: effects on iatrogenic edema and diastolic properties (Dean, Jia, & others) 1998;65:449-53\*

- Superior recovery of hypertrophied rat myocardium after cardioplegic arrest (Blank, Lahorra, & others) 1998;65:390-6\*

- Temporal relation of ATP-sensitive potassium-channel activation and contractility before cardioplegia (Hebbbar, Houck, & others) 1998;65:1077-82\*

- Terminal warm blood cardioplegia improves cardiac function through microtubule repolymerization (Tenpaku, Onoda, & others) 1998;65:1580-7\*

- Topical hypothermia: ineffective and deleterious as adjunct to cardioplegia for myocardial protection (Nikas, Ramadan, & Elefteriades) 1998;65:28-31\*



### Heart-assist devices

- Cerebral and systemic embolization during left ventricular support with the Novacor N100 device (Schmid, Weyand, & others) 1998;65:1703-10\*
- Conversion from routine cardiopulmonary bypass to centrifugal mechanical assist by transaortic inflow cannulation of the left ventricle (Kalangos, Murith, & others) 1998;65:1168-70,HW
- Extracorporeal membrane oxygenation support and cytokines (Kawahito, Misawa, & Fuse) 1998;65:1192-3,CP
- HeartMate left ventricular assist device as bridge to heart transplantation (Koul, Solem, & others) 1998;65:1625-30\*
- Inflow valve regurgitation during left ventricular assist device support may interfere with reverse ventricular remodeling (Moazami, Argenziano, & others) 1998;65:628-31\*
- LVAD power delivery: a percutaneous approach to avoid infection (Jarvik, Westaby, & others) 1998;65:470-3\*
- Monocyte tissue factor expression and ongoing complement generation in ventricular assist device patients (Wilhelm, Ristich, & others) 1998;65:1071-6\*
- Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius) 1998;65:877-8,UP
- Randomized, double-blind trial of inhaled nitric oxide in LVAD recipients with pulmonary hypertension (Argenziano, Choudhri, & others) 1998;65:340-5\*
- Right ventricular infarction during left ventricular assist system support (McBride, Ruggiero, & others) 1998;65:839-41,CR
- Transition from cardiopulmonary bypass to the HeartMate left ventricular assist device (Tector, Kress, & others) 1998;65:643-6\*

### Heart atrium

- Anastomosis of the left juxtaposed atrial appendages in a patient with tricuspid atresia (Kaneko, Okabe, & others) 1998;65:1783-4,CR
- Atrial flap anastomosis: an alternative technique for orthotopic heart transplantation (Döring & Marcsek) 1998;65:1163-4,HW
- Atrial septal displacement for repair of anomalous pulmonary venous return into the right atrium (Hiramatsu, Takanashi, & others) 1998;65:1110-4\*
- Biatial myxoma: a rare cardiac tumor (Peachell, Mullen, & others) 1998;65:1768-9,CR
- Echocardiography allows safer venous cannulation during excision of large right atrial masses (Rousou, Tighe, & others) 1998;65:403-6\*
- Mitral valve replacement associated with massive left atrial calcification (Santini, Peranzoni, & Mazzucco) 1998;65:1456-8,CR
- Natural history of a ventriculoatrial fistula after a gunshot injury in 1945 (Selinger, Werner, & others) 1998;65:1137-8,CR
- Optimizing mitral valve exposure with conventional left atriotomy (McCarthy & Cosgrove) 1998;65:1161-2,HW
- Preoperative identification and operative management of intraatrial extension of lung tumors (Heslin, Casper, & others) 1998;65:544-6,CR
- Right atrial isolation for atrial fibrillation associated with atrial septal defect (Harada, Ida, & Ikeshita) 1998;65:1766-8,CR
- Right atrial metastatic melanoma in a patient with transient ischemic attacks (Prabhakar, Vasilakis, & others) 1998;65:844-6,CR
- Surgical treatment of lipomatous hypertrophy of the interatrial septum (Alcocer, Katz, & Hattler) 1998;65:1784-6,CR

Teletronics 330-801 lead extraction (Parsonnet) 1998;65:600-1,CP

Temporary atrial electrode for the treatment of supraventricular tachycardia after cardiac operations (Mehmanesh, Lange, & Hagl) 1998;65:632-6\*

### Heart bypass, right

- Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*
- Superior hydrodynamics of a modified cavopulmonary connection for the Norwood operation (Sievers, Gerdes, & others) 1998;65:1741-5\*

### Heart catheterization

- Branch retinal artery occlusion from a retained left atrial catheter 21 years after operation (Drummond-Webb, Bokesch, & others) 1998;65:254-5,CR
- Catastrophic transcatheter baffle fenestration for failing Fontan physiology (Henneveld, Hutter, & others) 1998;65:268-70,CR

### Heart defects, congenital

- Combined heart and single-lung transplantation in complex congenital heart disease (Fann, Wilson, & others) 1998;65:823-5,CR
- Repair of complex unroofed coronary sinus by anastomosis of left to right superior vena cava (van Son, Hambsch, & Mohr) 1998;65:280-1,HW
- Right-sided maze procedure for right atrial arrhythmias in congenital heart disease (Theodoro, Danielson, & others) 1998;65:149-53\*
- Surgical anatomy of aorto-left ventricular tunnel (Ho, Muriago, & others) 1998;65:509-14\*
- Surgical palliation of truncus arteriosus with mitral atresia and hypoplastic left ventricle (Michelfelder, Zales, & Jacobs) 1998;65:260-3,CR
- Trends in the management of truncal valve insufficiency (McElhinney, Reddy, & others) 1998;65:517-24\*
- Tricuspid annuloplasty and ventricular plication for Ebstein's malformation (Vargas, Mengo, & others) 1998;65:1755-7\*
- Tricuspid valve closure for neonatal Ebstein's anomaly (Endo, Ohmi, & others) 1998;65:540-2,CR

### Heart diseases

- Surgical management of radiation-induced heart disease (Veeragandham & Goldin) 1998;65:1014-9\*

### Heart hypertrophy

- Superior recovery of hypertrophied rat myocardium after cardioplegic arrest (Blank, Lahorra, & others) 1998;65:390-6\*

### Heart injuries

- Natural history of a ventriculoatrial fistula after a gunshot injury in 1945 (Selinger, Werner, & others) 1998;65:1137-8,CR

### Heart-lung transplantation

- Combined heart and single-lung transplantation in complex congenital heart disease (Fann, Wilson, & others) 1998;65:823-5,CR
- A mystery of Vladimir P. Demikhov: the 50th anniversary of the first intrathoracic transplantation (Konstantinov) 1998;65:1171-7,SH

### Heart neoplasms

- Biatial myxoma: a rare cardiac tumor (Peachell, Mullen, & others) 1998;65:1768-9,CR
- Cardiac rhabdomyomas and obstructive left heart disease: histologically but not functionally benign (Black, Kadletz, & others) 1998;65:1388-90\*

**Heart rupture**

Blunt cardiac rupture caused by zip gun backfire (Fulton, De Groot, & others) 1998;65:837-9,CR

Right ventricular dysplasia may pose risk of ventricular rupture after cardiac operations (Asplund, Taylor, & Ratliff) 1998;65:1146-8,CR

**Heart rupture, postinfarction**

Early repair of postinfarction ventricular septal rupture: infarct exclusion, septal stabilization, and left ventricular remodeling (de Boer & de Boer) 1998;65:853-4,HW

**Heart septal defects**

Long-term results after repair of complete atrioventricular septal defects: analysis of risk factors (Günther, Mazzitelli, & others) 1998;65:754-60\*

**Heart septal defects, atrial**

Granulocyte elastase release and pulmonary hemodynamics in patients with atrial septal defect (Gohra, Fujimura, & others) 1998;65:719-23\*

Impact of ultrafiltration on blood use for atrial septal defect closure in infants and children (Gurbuz, Novick, & others) 1998;65:1105-9\*

Isolated right ventricular hypoplasia: intraoperative balloon occlusion test (Goh, Sasajima, & others) 1998;65:551-3,CR

Minimally invasive repair of atrial septal defects (Black & Freedom) 1998;65:765-7\*

Right atrial isolation for atrial fibrillation associated with atrial septal defect (Harada, Ida, & Ikeshita) 1998;65:1766-8,CR

Transxiphoid approach without median sternotomy for the repair of atrial septal defects (Barbero-Marcial, Tanamati, & others) 1998;65:771-4\*

**Heart septal defects, ventricular**

Correlates of survival in patients with postinfarction ventricular septal defect (de Boer, Mariani, & de Boer) 1998;65:299,CP; Reply (Lowe & Gall) 1998;65:299-300,CP

Leaflet's free edge suspension for correction of aortic insufficiency associated with ventricular septal defect (Kalangos, Beghetti, & others) 1998;65:566-8,HW

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**Heart transplantation**

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Stentless aortic bioprostheses: compelling data from the Second International Symposium (Westaby, Huysmans, & David) 1998;65:235-40\*

**Heart valves**

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#### Heart ventricle

Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*

Biventricular repair of hypoplastic left heart disease: a realistic goal? (Black, Nykanen, & Freedom) 1998;65:897-8,CP

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Repair of aortico-left ventricular tunnel originating from the left aortic sinus (Michielon, Sorbara, & Casarotto) 1998;65:1780-3,CR

Right ventricular dysplasia may pose risk of ventricular rupture after cardiac operations (Asplund, Taylor, & Ratliff) 1998;65:1146-8,CR

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Surgical palliation of truncus arteriosus with mitral atresia and hypoplastic left ventricle (Michelfelder, Zales, & Jacobs) 1998;65:260-3,CR

Suspension of straddling tricuspid valve chordae into the appropriate ventricle (van Son, Hambsch, & Mohr) 1998;65:850-2,HW

Tricuspid annuloplasty and ventricular plication for Ebstein's malformation (Vargas, Mengo, & others) 1998;65:1755-7\*

#### Hematocrit

Effects of oncotic pressure and hematocrit on outcome after hypothermic circulatory arrest (Shin'oka, Shum-Tim, & others) 1998;65:155-64\*

#### Hemodynamics

Direct reconstruction of the pulmonary artery during the arterial switch operation: an interesting surgical option with excellent hemodynamic results (Carrel, Mattila, & others) 1998;65:1115-9\*

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Hemodynamic effects of human atrial natriuretic peptide after modified Fontan procedure (Hiramatsu, Imai, & others) 1998;65:761-4\*

Influence of ascending versus descending balloon counterpulsation on bypass graft blood flow (Gitter, Cate, & others) 1998;65:365-9\*

One-lung Fontan operation: hemodynamics and surgical outcome (Zachary, Jacobs, & others) 1998;65:171-5\*

Randomized, double-blind trial of inhaled nitric oxide in LVAD recipients with pulmonary hypertension (Argenziano, Choudhri, & others) 1998;65:340-5\*

Stentless aortic bioprostheses: compelling data from the Second International Symposium (Westaby, Huysmans, & David) 1998;65:235-40\*

#### Hemoptysis

An unusual cause of hemoptysis (Urbat, Haapaniemi, & others) 1998;65:539-40,CR

#### Hemorrhage

Abciximab and excessive bleeding in patients undergoing emergency cardiac operations (Gammie, Zenati, & others) 1998;65:465-9\*

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Surgical management of hemorrhage from rupture of the aortic arch (Pr  tre, Murith, & others) 1998;65:1291-5\*

#### Hemostasis

Activation of hemostasis during cardiopulmonary bypass and pediatric aprotinin dosage (M  ssinger & Dietrich) 1998;65:S45-51\*

Influence of high- and low-dose aprotinin on activation of hemostasis in open heart operations (Dietrich, Sch  pf, & others) 1998;65:70-6\*

#### Hemothorax

Pulmonary vein injury through repetitive clip friction: an unusual cause of hemothorax (Sirbu, Herse, & others) 1998;65:548-50,CR

#### Heparin

Effect of anticoagulation protocol on outcome in patients undergoing CABG with heparin-bonded cardiopulmonary bypass circuits (Aldea, O'Gara, & others) 1998;65:425-33\*

Heparin-coated equipment reduces the risk of oxygenator failure (Wahba, Philipp, & others) 1998;65:1310-2\*

#### Hepatic vein thrombosis

Improvement in esophageal varices and liver histology postoperatively in Budd-Chiari syndrome (Kuniyoshi, Koja, & others) 1998;65:1711-4\*

**Hepatic veins**

- Reversal of pulmonary arteriovenous malformation after diversion of anomalous hepatic drainage (Lee, Menkis, & Rosenberg) 1998;65:848-9,CR

**Hernia**

- Delayed presentation of traumatic parasternal lung hernia (Jacka & Luison) 1998;65:1150-1,CR  
Lung herniation secondary to minimally invasive direct coronary artery bypass grafting (Deeik, Memon, & Sugimoto) 1998;65:1772-4,CR  
Video-assisted repair of a traumatic intercostal pulmonary hernia (Reardon, Fabré, & others) 1998;65:1155-7,CR

**Histology**

- Histologic findings of transmyocardial laser channels after two hours (Lutter, Schwarzkopf, & others) 1998;65:1437-9,CR  
Improvement in esophageal varices and liver histology post-operatively in Budd-Chiari syndrome (Kuniyoshi, Koja, & others) 1998;65:1711-4\*

**HLA-B7 antigen**

- Induction of tolerance in rodent cardiac allotransplantation using an MHV class I-derived peptide and cyclosporin A (Masroor, Itescu, & others) 1998;65:144-8\*

**Hospital**

- Secular trends in nosocomial bloodstream infections in a 55-bed cardiothoracic intensive care unit (Gordon, Serkey, & others) 1998;65:95-100\*

**How to do it**

- The "annular sandwich": a simple method of reinforcing a friable mitral valve annulus (Craig & Walker) 1998;65:1805-6,HW  
Atrial flap anastomosis: an alternative technique for orthotopic heart transplantation (Döring & Marcsek) 1998;65:1163-4,HW  
Autoblood plus OK432 pleurodesis with open drainage for persistent air leak after lobectomy (Yokomise, Satoh, & others) 1998;65:563-5,HW  
Bicuspidization for tricuspid stenosis (Victor & Nayak) 1998;65:1468-70,HW  
Cartilage folding method for main bronchial stapling (Aoki, Ozeki, & others) 1998;65:1800-1,HW  
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Conversion from routine cardiopulmonary bypass to centrifugal mechanical assist by transaortic inflow cannulation of the left ventricle (Kalangos, Murith, & others) 1998;65:1168-70,HW  
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Endomyocardial biopsy in the heterotopic heart transplant patient (Arzouman, Arabia, & others) 1998;65:857-8,HW  
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- An inexpensive method of heart stabilization during coronary artery operations without cardiopulmonary bypass (Lucchetti & Angelini) 1998;65:1477-8,HW

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- Limited lower sternotomy for minimally invasive mitral valve replacement (Nair & Sharpe) 1998;65:273-4,HW

- Method for creation of the aortotomy site for saphenous vein grafts (Alexander, Votapka, & others) 1998;65:861-2,HW

- A method for perfusion of the leg during cardiopulmonary bypass via femoral cannulation (Hendrickson & Glower) 1998;65:1807-8,HW

- Minimally invasive aortic valve replacement via partial sternotomy (Tam & Almeida) 1998;65:275-6,HW

- Minimally invasive reversed Z sternotomy for aortic valve replacement (Nair & Sharpe) 1998;65:1165-6,HW

- Modified minimally invasive technique for greater saphenous vein harvesting (Slaughter, Gerchar, & Pappas) 1998;65:571-2,HW

- Optimizing mitral valve exposure with conventional left atriotomy (McCarthy & Cosgrove) 1998;65:1161-2,HW

- Performance of a safe proximal anastomosis in aortic dissection (Prêtre) 1998;65:1798-9,HW

- Prostaglandin E<sub>1</sub> from the tip of an intraaortic balloon catheter for lower limb ischemia (Nakano, Tominaga, & others) 1998;65:1158-60,HW

- Proximal aortic control in traumatic rupture of the thoracic aorta (Williams) 1998;65:1797,HW

- Repair of complex unroofed coronary sinus by anastomosis of left to right superior vena cava (van Son, Hambsch, & Mohr) 1998;65:280-1,HW

- Right parasternal incision: a uniform minimally invasive approach for valve operations (Lazzara & Kidwell) 1998;65:271-2,HW

- Right-sided partial sternotomy for minimally invasive valve operation: "open door method" (Kasegawa, Shimokawa, & others) 1998;65:569-70,HW

- Semicontinuous suture technique for all prosthetic valve insertions: the "hoist" technique (Ruchat, Hurni, & others) 1998;65:859-60,HW

- Simplified method for candidate selection for radial artery harvesting (Johnson, Cromartie, & others) 1998;65:1167,HW

- Supravalvular aortic stenosis: a modification of extended aortoplasty (Steinberg, Delius, & Behrendt) 1998;65:277-9,HW

- A surgical method for selecting appropriate size of graft in aortic root remodeling (Morishita, Abe, & others) 1998;65:1795-6,HW

- Suspension of straddling tricuspid valve chordae into the appropriate ventricle (van Son, Hambsch, & Mohr) 1998;65:850-2,HW

- Thoracoscopic limited pericardial resection with an ultrasonic scalpel (Ohtsuka, Wolf, & others) 1998;65:855-6,HW

- Use of 3.5-mm acetabular reconstruction plates for internal fixation of flail chest injuries (Oyarzun, Bush, & others) 1998;65:1471-4,HW

- Use of an ultrasonic scalpel as an alternative to electrocautery in patients with pacemakers (Epstein, Mayer, & Duncan) 1998;65:1802-4,HW

**Hyperglycemia**

- Hyperglycemia during normothermic cardiopulmonary bypass: the role of the kidney (Braden, Cheema-Dhadli, & others) 1998;65:1588-93\*



### Hyperkalemia

Normothermic versus hypothermic hyperkalemic cardioplegia: effects on myocyte contractility (Houck, Kribbs, & others) 1998;65:1279-83\*

### Hypertension, pulmonary

Lung transplantation for primary pulmonary hypertension and giant pulmonary artery aneurysm (Wekerle, Klepetko, & others) 1998;65:825-7,CR

Randomized, double-blind trial of inhaled nitric oxide in LVAD recipients with pulmonary hypertension (Argenziano, Choudhri, & others) 1998;65:340-5\*

Temporary aorto-pulmonary shunt for pulmonary hypertension after truncus arteriosus repair (Katsumata, Shinfield, & Westaby) 1998;65:1764-5,CR

### Hypoplastic left heart syndrome

Biventricular repair of hypoplastic left heart disease: a realistic goal? (Black, Nykanen, & Freedom) 1998;65:897-8,CP

Superior hydrodynamics of a modified cavopulmonary connection for the Norwood operation (Sievers, Gerdes, & others) 1998;65:1741-5\*

Surgical palliation of truncus arteriosus with mitral atresia and hypoplastic left ventricle (Michelfelder, Zales, & Jacobs) 1998;65:260-3,CR

### Hypothermia, induced

Computer-controlled cardiopulmonary bypass increases jugular venous oxygen saturation during rewarming (Mutch, Lefevre, & others) 1998;65:59-65\*

Effects of oncotic pressure and hematocrit on outcome after hypothermic circulatory arrest (Shin'oka, Shum-Tim, & others) 1998;65:155-64\*

Glucose and fatty acid oxidation by the in situ dog heart during experimental cooling and rewarming (Steigen, Tveita, & others) 1998;65:1235-40\*

Induced hypothermia in critical respiratory failure after lung transplantation (Eriksson & Steen) 1998;65:827-9,CR

Myocardial oxygenation during terminal warm blood cardioplegia (Kawasuji, Tomita, & others) 1998;65:1260-4\*

Topical hypothermia: ineffective and deleterious as adjunct to cardioplegia for myocardial protection (Nikas, Ramadan, & Elefteriades) 1998;65:28-31\*

### Iatrogenic disease

Branch retinal artery occlusion from a retained left atrial catheter 21 years after operation (Drummond-Webb, Bokesch, & others) 1998;65:254-5,CR

Laceration of the external iliac artery with a pediatric intraaortic balloon catheter (Sogawa, Watanabe, & Hayashi) 1998;65:892,CP

Pulmonary vein injury through repetitive clip friction: an unusual cause of hemothorax (Sirbu, Herse, & others) 1998;65:548-50,CR

Retrograde coronary perfusion: effects on iatrogenic edema and diastolic properties (Dean, Jia, & others) 1998;65:449-53\*

Tracheobronchial laceration after double-lumen intubation for thoracic procedures (Spaggiari, Rusca, & others) 1998;65:1837-8,CP; Reply (Massard, Hentz, & Wihlm) 1998;65:1838-9,CP

### Iliac artery

Laceration of the external iliac artery with a pediatric intraaortic balloon catheter (Sogawa, Watanabe, & Hayashi) 1998;65:892,CP

### Immunocompromised host

Surgical therapy for pulmonary aspergillosis in immunocompromised patients (Salerno, Ouyang, & others) 1998;65:1415-9\*

### Industry

The surgical meeting as infomercial (Cohn) 1998;65:1833,CP  
The surgical meeting as infomercial (Muskett) 1998;65:297-8,CP

### Infant

Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*

Complement and contact activation during cardiovascular operations in infants (Sonntag, Dähnert, & others) 1998;65:525-31\*

Impact of ultrafiltration on blood use for atrial septal defect closure in infants and children (Gurbuz, Novick, & others) 1998;65:1105-9\*

Late results and reintervention after aortic valvotomy for critical aortic stenosis in neonates and infants (Hawkins, Minich, & others) 1998;65:1758-63\*

Minimally invasive diaphragm plication in an infant (Van Smith, Jacobs, & Burke) 1998;65:842-4,CR

Modified repair of mixed anomalous pulmonary venous connection (van Son, Hambsch, & Mohr) 1998;65:1441-2,CR

Modified superior approach for repair of supracardiac and mixed total anomalous pulmonary venous drainage (Seraf, Belli, & others) 1998;65:1391-3\*

Neurologic sequelae associated with deep hypothermic circulatory arrest (Hickey) 1998;65:S65-70\*

Pulmonary vascular resistance of children treated with nitrogen during early infancy (Hirsch, Dent, & others) 1998;65:1394-9\*

Repair of complex unroofed coronary sinus by anastomosis of left to right superior vena cava (van Son, Hambsch, & Mohr) 1998;65:280-1,HW

Should we address the course as well as the origin of a translocated anomalous coronary artery? (Black, McCrindle, & Freedom) 1998;65:248-50,CR

Surgical palliation of truncus arteriosus with mitral atresia and hypoplastic left ventricle (Michelfelder, Zales, & Jacobs) 1998;65:260-3,CR

Trends in the management of truncal valve insufficiency (McElhinney, Reddy, & others) 1998;65:517-24\*

Tricuspid valve closure for neonatal Ebstein's anomaly (Endo, Ohmi, & others) 1998;65:540-2,CR

Two-stage correction of transposition of great arteries with complete atrioventricular canal (Sakamoto, Galletti, & others) 1998;65:250-2,CR

### Infant, newborn

Truncal valve repair: initial experience in neonates (Black, Adatia, & Freedom) 1998;65:1737-40\*

### Infection

Conservative operation for infective endocarditis of the mitral valve (Lee, Shapiro, and Wells) 1998;65:1087-92\*

Deep sternal wound infection: risk factors and outcomes (Borger, Rao, & others) 1998;65:1050-6\*

Descending cervical mediastinitis (Kiernan, Hernandez, & others) 1998;65:1483-8,CV

Infectious mediastinitis after cardiac operations: computed tomographic findings (Misawa, Fuse, & Hasegawa) 1998;65:622-4\*

LVAD power delivery: a percutaneous approach to avoid infection (Jarvik, Westaby, & others) 1998;65:470-3\*

Mycotic aneurysm of the left coronary artery (Matsumoto, Konishi, & others) 1998;65:841-2,CR

Operation for infective endocarditis: results after implantation of mechanical valves (Bauernschmitt, Jakob, & others) 1998;65:359-64\*

**Infection (cont'd)**

- Prospective trial of catheter irrigation and muscle flaps for sternal wound infection (Rand, Cochran, & other) 1998; 65:1046-9\*
- Reimplantation of infected antiarrhythmic implantable devices (Böke, Yilmaz, & Özkan) 1998;65:596-7,CP; Reply (Molina) 1998;65:597,CP
- Reimplantation of infected antiarrhythmic implantable devices (Böke, Yilmaz, & Özkan) 1998;65:899,CP
- Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998;65:1135-7,CR
- Retrosternal fat pad for prevention of suppurative sternitis (Kapadia & Russo) 1998;65:601,CP; Reply (Paterson) 1998; 65:601,CP
- Secular trends in nosocomial bloodstream infections in a 55-bed cardiothoracic intensive care unit (Gordon, Serkey, & others) 1998;65:95-100\*
- Video-assisted thoracoscopic surgery for fibrinopurulent pleural empyema in 67 patients (Striffeler, Gugger, & others) 1998;65:319-23\*

**Inflammation**

- Complement and contact activation during cardiovascular operations in infants (Sonntag, Dähnert, & others) 1998; 65:525-31\*
- Inflammatory mediators in adults undergoing cardiopulmonary bypass: comparison of centrifugal and roller pumps (Ashraf, Butler, & others) 1998;65:480-4\*
- "Low SVR syndrome" or SIRS after cardiac operations? (Myles & Davis) 1998;65:298,CP
- Reduction of the inflammatory response in patients undergoing minimally invasive coronary artery bypass grafting (Gu, Mariani, & others) 1998;65:420-4\*

**Information systems**

- It's not too late to wake up: be proactive and a leader in the field (Arom) 1998;65:8-12,PA
- 1995 coronary artery bypass risk model: The Society of Thoracic Surgeons Adult Cardiac National Database (Shroyer, Grover, & Edwards) 1998;65:879-84,RE

**Intensive care units**

- Secular trends in nosocomial bloodstream infections in a 55-bed cardiothoracic intensive care unit (Gordon, Serkey, & others) 1998;65:95-100\*

**Interleukin-10**

- Aprotinin enhances the endogenous release of interleukin-10 after cardiac operations (Hill, Diego, & others) 1998;65: 66-9\*

**Internal fixators**

- Biomechanical study of sternal closure using rigid fixation techniques in human cadavers (Ozaki, Buchman, & others) 1998;65:1660-5\*
- Use of 3.5-mm acetabular reconstruction plates for internal fixation of flail chest injuries (Oyarzun, Bush, & others) 1998;65:1471-4,HW

**Intraaortic balloon pumping**

- Influence of ascending versus descending balloon counterpulsation on bypass graft blood flow (Gitter, Cate, & others) 1998;65:365-9\*
- Intraaortic balloon pump after treatment of anomalous origin of left coronary artery (Pozzi, Santoro, & Makundan) 1998;65:555-7,CR
- Intraaortic balloon pump in open heart operations: 10-year follow-up with risk analysis (Arafa, Pedersen, & others) 1998;65:741-7\*

Laceration of the external iliac artery with a pediatric intraaortic balloon catheter (Sogawa, Watanabe, & Hayashi) 1998; 65:892,CP

Paraplegia caused by aortic dissection after intraaortic balloon pump assist (Beholz, Braun, & others) 1998;65:603-4,CP; Reply (Hurlé, Llamas, & others) 1998;65:604,CP

Prostaglandin E<sub>1</sub> from the tip of an intraaortic balloon catheter for lower limb ischemia (Nakano, Tominaga, & others) 1998;65:1158-60,HW

**Intubation**

Extubation of the patient after a difficult intubation (Kumar & Lazar) 1998;65:1778-80,CR

Tracheobronchial laceration after double-lumen intubation for thoracic procedures (Spaggiari, Rusca, & others) 1998; 65:1837-8,CP; Reply (Massard, Hentz, & Wihlm) 1998;65: 1838-9,CP

**Invited presentation**

Retooling thoracic surgery education for the 21st century (Baumgartner) 1998;65:13-6\*

**Irrigation**

Prospective trial of catheter irrigation and muscle flaps for sternal wound infection (Rand, Cochran, & other) 1998; 65:1046-9\*

**Ischemia**

Metabolic detriment in donor heart valves induced by ischemia and cryopreservation (Lu, Chang, & others) 1998;65: 24-7\*

Prostaglandin E<sub>1</sub> from the tip of an intraaortic balloon catheter for lower limb ischemia (Nakano, Tominaga, & others) 1998;65:1158-60,HW

**Ischemic preconditioning, myocardial**

- Postischemic function and protein kinase C signal transduction (Rohs, Kilgore, & others) 1998;65:1680-4\*
- Prospective, randomized clinical study of ischemic preconditioning as an adjunct to intermittent cold blood cardioplegia (Illes & Swoyer) 1998;65:748-53\*

**Jugular veins**

- Computer-controlled cardiopulmonary bypass increases jugular venous oxygen saturation during rewarming (Mutch, Lefevre, & others) 1998;65:59-65\*
- Jugular venous bulb oxygen saturation depends on blood pressure during cardiopulmonary bypass (Grubhofer, Lassnigg, & others) 1998;65:653-8\*

**Ketoglutaric acids**

Renal effects of  $\alpha$ -ketoglutarate early after coronary operations (Jeppsson, Ekroth, & others) 1998;65:684-90\*

**Key references**

- Cardiac transplantation (Crumbley) 1998;65:1489-91,KR
- Esophageal perforation (Wetstein, Duerr, & Wagner) 1998;65: 875-6,KR
- Lung transplantation (Sundaresan & Cooper) 1998;65:293-4,KR

**Kidney**

- Alterations in renal microcirculation during cardiopulmonary bypass (Pathi, Morrison, & others) 1998;65:993-8\*
- Hyperglycemia during normothermic cardiopulmonary bypass: the role of the kidney (Braden, Cheema-Dhadli, & others) 1998;65:1588-93\*
- Renal effects of  $\alpha$ -ketoglutarate early after coronary operations (Jeppsson, Ekroth, & others) 1998;65:684-90\*
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- Kidney transplantation**  
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- Leukocyte elastase**  
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- Leukocytes**  
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- Microcirculation**  
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- Effect of nitric oxide gas on platelets during open heart operations (Mellgren, Mellgren, & others) 1998;65:1335-41\*
- Hypomagnesemia inhibits nitric oxide release from coronary endothelium: protective role of magnesium infusion after cardiac operations (Pearson, Evora, & others) 1998;65:967-72\*
- Nitric oxide potentiates acute lung injury in an isolated rabbit lung model (Rayhrer, Edmisten, & others) 1998;65:935-8\*
- Randomized, double-blind trial of inhaled nitric oxide in LVAD recipients with pulmonary hypertension (Argenziano, Choudhri, & others) 1998;65:340-5\*
- Nitrogen**  
Pulmonary vascular resistance of children treated with nitrogen during early infancy (Hirsch, Dent, & others) 1998;65:1394-9\*
- Norwood operation**  
Superior hydrodynamics of a modified cavopulmonary connection for the Norwood operation (Sievers, Gerdes, & others) 1998;65:1741-5\*
- Organ transplantation**  
Use of aprotinin in pediatric organ transplantation (Spray) 1998;65:S71-3\*
- Osteosarcoma**  
Parosteal osteosarcoma from a rib (Jatoi, Garcia-Moliner, & Daly) 1998;65:265-7,CR
- Our surgical heritage**  
The birth of intracardiac surgery: a semicentennial tribute (June 10, 1948-1998) (Dávila) 1998;65:1809-20,SH
- The mask of Thomas Mann (1875-1955): medical insights and last illness (Carter) 1998;65:578-85,SH
- A mystery of Vladimir P. Demikhov: the 50th anniversary of the first intrathoracic transplantation (Konstantinov) 1998;65:1171-7,SH
- William E. Adams: Thomas Mann and *The Magic Mountain* (Naef) 1998;65:285-7,SH
- On writing chapters for books (Bypass) 1998;65:863-7,SH
- Oxygen**  
Computer-controlled cardiopulmonary bypass increases jugular venous oxygen saturation during rewarming (Mutch, Lefevre, & others) 1998;65:59-65\*
- Jugular venous bulb oxygen saturation depends on blood pressure during cardiopulmonary bypass (Grubhofer, Lassnigg, & others) 1998;65:653-8\*

**Oxygenators, membrane**

Heparin-coated equipment reduces the risk of oxygenator failure (Wahba, Philipp, & others) 1998;65:1310-2\*

**Pacemaker, artificial**

Reimplantation of infected antiarrhythmic implantable devices (Böke, Yilmaz, & Özkan) 1998;65:596-7,CP; Reply (Molina) 1998;65:597,CP

Reimplantation of infected antiarrhythmic implantable devices (Böke, Yilmaz, & Özkan) 1998;65:899,CP

Surgical removal of Telectronics pacing wire from the right pulmonary artery (Oswal, Hayat, & Kay) 1998;65:1192,CP  
Telectronics 330-801 lead extraction (Parsonnet) 1998;65:600-1,CP

Use of an ultrasonic scalpel as an alternative to electrocautery in patients with pacemakers (Epstein, Mayer, & Duncan) 1998;65:1802-4,HW

**Pain, intractable**

Thoracoscopic splanchnicectomy for control of intractable pain in pancreatic cancer (Le Pimpec Barthes, Chapuis, & others) 1998;65:810-3\*

**Pain, postoperative**

Postthoracotomy pain (Richardson, Smith, & others) 1998;65:300-1,CP; Reply (Salzer) 1998;65:301-2,CP

**Pancreas**

Epithelial cell hyperproliferation after biliopancreatic reflux into the esophagus of rats (Pera, Grande, & others) 1998;65:779-86\*

Heterotopic pancreas of the esophagus associated with a rare type of esophageal atresia (Yamagiwa, Obata, & others) 1998;65:1143-4,CR

**Pancreatic neoplasms**

Thoracoscopic splanchnicectomy for control of intractable pain in pancreatic cancer (Le Pimpec Barthes, Chapuis, & others) 1998;65:810-3\*

**Paraplegia**

Paraplegia caused by aortic dissection after intraaortic balloon pump assist (Beholz, Braun, & others) 1998;65:603-4,CP; Reply (Hurlé, Llamas, & others) 1998;65:604,CP

Reversal of renal failure and paraplegia after thoracoabdominal aneurysm repair (Widmann, DeLucia, & others) 1998;65:1153-5,CR

**Perfusion, regional**

Cytostatic lung perfusion by use of an endovascular blood flow occlusion technique (Furrer, Lardinois, & others) 1998;65:1523-8\*

Impact of retrograde cerebral perfusion with posterolateral thoracotomy on distal arch aneurysm repair (Yamashita, Okada, & others) 1998;65:955-60\*

Isolated lung perfusion: single-pass system versus recirculating blood perfusion in pigs (Furrer, Lardinois, & others) 1998;65:1420-5\*

A method for perfusion of the leg during cardiopulmonary bypass via femoral cannulation (Hendrickson & Glower) 1998;65:1807-8,HW

**Pericardiectomy**

A late complication of tuberculous pericarditis after partial pericardial resection (Gregory, Connery, & Anagnostopoulos) 1998;65:542-4,CR

Thoracoscopic limited pericardial resection with an ultrasonic scalpel (Ohtsuka, Wolf, & others) 1998;65:855-6,HW

**Pericarditis, constrictive**

Fungal purulent constrictive pericarditis in a heart transplant patient (Canver, Patel, & others) 1998;65:1792-4,CR

Needle embolus causing cardiac puncture and chronic constrictive pericarditis (LeMaire, Wall, & Mattox) 1998;65:1786-7,CR

**Pericarditis, tuberculous**

A late complication of tuberculous pericarditis after partial pericardial resection (Gregory, Connery, & Anagnostopoulos) 1998;65:542-4,CR

**Pericardium**

Aortic stenosis bicuspid valve repair using pericardium (Freitas) 1998;65:604-5,CP; Reply (Kadri, Hovaguimian, & Starr) 1998;65:605,CP

Aortic valve repair with bovine pericardium (Al-Halees, Gometza, & Duran) 1998;65:601-2,CP; Reply (Monro) 1998;65:602,CP

Bovine pericardium versus bovine collagen to buttress staples for lung reduction operations (Fischel & McKenna) 1998;65:217-9\*

**Pharynx**

Silent aspiration after coronary artery bypass grafting (Harrington, Duckworth, & others) 1988;65:1599-603\*

**Phrenic nerve**

Phrenic nerve injury after coronary artery bypass grafting: will it go away? (Katz, Katz, & others) 1998;65:32-5\*

**Platelet activating factor**

The role of platelet-activating factor in regional myocardial ischemia-reperfusion injury (Qayumi, English, & others) 1998;65:1690-7\*

**Platelet activation**

Platelet and neutrophil activation during cardiac surgical procedures: impact of cardiopulmonary bypass (Morse, Adams, & Magnani) 1998;65:691-5\*

**Platelet aggregation inhibitors**

Abciximab and excessive bleeding in patients undergoing emergency cardiac operations (Gammie, Zenati, & others) 1998;65:465-9\*

**Pleura**

Endoscopic treatment of bronchopleural fistulas (Varoli, Roviario, & others) 1998;65:807-9\*

**Pleural neoplasms**

Giant solitary fibrous tumor of the pleura (Khan, Rahman, & others) 1998;65:1461-4,CR

**Pleurodesis**

Autoblood plus OK432 pleurodesis with open drainage for persistent air leak after lobectomy (Yokomise, Satoh, & others) 1998;65:563-5,HW

**Pneumonectomy**

Bilateral lung volume reduction surgery via median sternotomy for severe pulmonary emphysema (Date, Goto, & others) 1998;65:939-42\*

Bovine pericardium versus bovine collagen to buttress staples for lung reduction operations (Fischel & McKenna) 1998;65:217-9\*

Hybrid myocardial revascularization after previous left pneumonectomy (Soltanian, Sanders, & others) 1998;65:259-60,CR

Lung reduction operation and resection of pulmonary nodules in patients with severe emphysema (DeRose, Argenziano, & others) 1998;65:314-8\*

Morphologic grading of the emphysematous lung and its relation to improvement after lung volume reduction surgery (Wisser, Klepetko, & others) 1998;65:793-9\*

**Pneumothorax**

Efficiency of video-assisted thoracic surgery for primary and secondary spontaneous pneumothorax (Passlick, Born, & others) 1998;65:324-7\*



Thoracoscopic operation for secondary pneumothorax under local and epidural anesthesia in high-risk patients (Mukaida, Andou, & others) 1998;65:924-6\*

**Polidocanol**

Endoscopic treatment of bronchopleural fistulas (Varoli, Roviato, & others) 1998;65:807-9\*

**Polytetrafluoroethylene**

Aortocoronary bypass grafting with expanded polytetrafluoroethylene: 12-year patency (McLarty, Phillips, & others) 1998;65:1442-4,CR

Artificial chordae for mitral valve reconstruction in children (Murakami, Yagihara, & others) 1998;65:1377-80\*

Experimental study of a new porous tracheal prosthesis (Guijarro Jorge, Cantó, & others) 1998;65:1830-1,UP

Side-to-side aorto-Gore-Tex central shunt (Gates, Laks, & Johnson) 1998;65:515-6\*

**Postoperative complications**

Autoblood plus OK432 pleurodesis with open drainage for persistent air leak after lobectomy (Yokomise, Satoh, & others) 1998;65:563-5,HW

Demonstration of ischemia-reperfusion injury separate from postoperative infarction in coronary artery bypass graft patients (Fransen, Maessen, & others) 1998;65:48-53\*

Early detection of cardiac damage with heart fatty acid-binding protein after cardiac operations (Suzuki, Sawa, & others) 1998;65:54-8\*

Effects of depletion of leukocytes and platelets on cardiac dysfunction after cardiopulmonary bypass (Chiba, Morioka, & others) 1998;65:107-13\*

Induced hypothermia in critical respiratory failure after lung transplantation (Eriksson & Steen) 1998;65:827-9,CR

Infectious mediastinitis after cardiac operations: computed tomographic findings (Misawa, Fuse, & Hasegawa) 1998;65:622-4\*

A late complication of tuberculous pericarditis after partial pericardial resection (Gregory, Connery, & Anagnostopoulos) 1998;65:542-4,CR

Mediastinitis after cardiovascular operations: a case-control study of risk factors (Bitkover & Gårdlund) 1998;65:36-40\*

Pulmonary vein injury through repetitive clip friction: an unusual cause of hemothorax (Sirbu, Herse, & others) 1998;65:548-50,CR

Repair of ruptured anastomotic aneurysm: elephant trunk technique after endovascular covered stents (Ezure, Kotsuka, & others) 1998;65:241-3,CR

Right ventricular dysplasia may pose risk of ventricular rupture after cardiac operations (Asplund, Taylor, & Ratliff) 1998;65:1146-8,CR

Saphenous vein graft pseudoaneurysm rupture after coronary artery bypass grafting (Mohara, Konishi, & others) 1998;65:831-2,CR

Temporary atrial electrode for the treatment of supraventricular tachycardia after cardiac operations (Mehmanesh, Lange, & Hagl) 1998;65:632-6\*

Treatment of mediastinitis: early modified Robicsek closure and pectoralis major advancement flaps (El Gamel, Yonan, & others) 1998;65:41-7\*

**Postoperative hemorrhage**

Aprotinin and dipyridamole for safe reduction of postoperative blood loss (Cohen, Ivanov, & others) 1998;65:674-83\*

Aprotinin versus lysine analogues: the debate continues (Royston) 1998;65:S9-19\*

Management of bleeding complications in redo cardiac operations (Smith) 1998;65:S2-8\*

Negative reexploration for cardiac postoperative bleeding: can it be therapeutic? (Pelletier, Solymoss, & others) 1998;65:999-1002\*

The platelet thrombin receptor and postoperative bleeding (Ferraris, Ferraris, & others) 1998;65:352-8\*

Prophylactic tranexamic acid and  $\epsilon$ -aminocaproic acid for primary myocardial revascularization (Hardy, Bélisle, & others) 1998;65:371-6\*

**Postoperative period**

Hypomagnesemia inhibits nitric oxide release from coronary endothelium: protective role of magnesium infusion after cardiac operations (Pearson, Evora, & others) 1998;65:967-72\*

Left ventricular volume predicts postoperative course in patients with ischemic cardiomyopathy (Yamaguchi, Ino, & others) 1998;65:434-8\*

**Potassium**

Adenosine prevents  $K^+$ -induced  $Ca^{2+}$  loading: insight into cardioprotection during cardioplegia (Jovanović, Lopez, & others) 1998;65:586-91,CV

Normothermic versus hypothermic hyperkalemic cardioplegia: effects on myocyte contractility (Houck, Kribbs, & others) 1998;65:1279-83\*

**Potassium channels**

Temporal relation of ATP-sensitive potassium-channel activation and contractility before cardioplegia (Hebbbar, Houck, & others) 1998;65:1077-82\*

**Preconditioning, myocardial**

Calcium preconditioning in human myocardium (Cain, Meldrum, & others) 1998;65:1065-70\*

Prospective, randomized clinical study of ischemic preconditioning as an adjunct to intermittent cold blood cardioplegia (Illes & Swayer) 1998;65:748-53\*

**Pregnancy**

Aortic dissection during pregnancy (Cheng) 1998;65:1511-2,CP; Reply (Zeebregts & Schepens) 1998;65:1512,CP

**Presidential address**

It's not too late to wake up: be proactive and a leader in the field (Arom) 1998;65:8-12,PA

Paranoia or reality? (Kaiser) 1998;65:1201-6,PA

**President's page**

Change (Kaiser) 1998;65:7,PA

**Pressure**

Effect of pressure on myocardial function after 6-hour preservation with blood cardioplegia (Li, Sullivan, & others) 1998;65:115-24\*

Effects of oncotic pressure and hematocrit on outcome after hypothermic circulatory arrest (Shin'oka, Shum-Tim, & others) 1998;65:155-64\*

**Prostheses and implants**

Comparison of conventional and wire mesh expandable prostheses and surgical bypass in patients with malignant esophagorespiratory fistulas (Low & Kozarek) 1998;65:919-23\*

Experimental study of a new porous tracheal prosthesis (Guijarro Jorge, Cantó, & others) 1998;65:1830-1,UP

Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998;65:1135-7,CR

Semicontinuous suture technique for all prosthetic valve insertions: the "hoist" technique (Ruchat, Hurni, & others) 1998;65:859-60,HW

**Protein kinase C**

Postischemic function and protein kinase C signal transduction (Rohs, Kilgore, & others) 1998;65:1680-4\*

**Protein-losing enteropathies**

- Catastrophic transcatheter baffle fenestration for failing Fontan physiology (Henneveld, Hutter, & others) 1998;65:268-70,CR

**Proteins**

- Cerebral emboli and serum S100 $\beta$  during cardiac operations (Grocott, Croughwell, & others) 1998;65:1645-50\*
- Significance of serum S100 release after coronary artery bypass grafting (Jönsson, Johnsson, & others) 1998;65:1639-44\*

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- Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*
- Direct reconstruction of the pulmonary artery during the arterial switch operation: an interesting surgical option with excellent hemodynamic results (Carrel, Mattila, & others) 1998;65:1115-9\*
- Division of the main pulmonary artery: suboptimal palliation for the patient with a univentricular heart (Wong & Beekman) 1998;65:1464-5,CR
- Granulocyte elastase release and pulmonary hemodynamics in patients with atrial septal defect (Gohra, Fujimura, & others) 1998;65:719-23\*
- Left pulmonary artery kinking caused by outflow tract dilatation after transannular patch repair of tetralogy of Fallot (McElhinney, Parry, & others) 1998;65:1120-6\*
- Lung transplantation for primary pulmonary hypertension and giant pulmonary artery aneurysm (Wekerle, Klepetko, & others) 1998;65:825-7,CR
- One-lung Fontan operation: hemodynamics and surgical outcome (Zachary, Jacobs, & others) 1998;65:171-5\*
- One-stage repair of interrupted aortic arch and aortopulmonary window (Hata, Shiono, & others) 1998;65:829-31,CR
- Reconstruction of supraaortic stenosis with autologous pulmonary artery (Al-Halees, Prabhakar, & Galal) 1998;65:532-4,CR
- Surgical management of aortopulmonary window (Di Bella & Gladstone) 1998;65:768-70\*
- Surgical removal of Teletronics pacing wire from the right pulmonary artery (Oswal, Hayat, & Kay) 1998;65:1192,CP
- Temporary aorto-pulmonary shunt for pulmonary hypertension after truncus arteriosus repair (Katsumata, Shinfield, & Westaby) 1998;65:1764-5,CR
- Thoracoscopic lobectomy with endoarterial vascular control: an experimental study in swine (Conlan, Hsi, & others) 1998;65:336-9\*
- Unruptured aneurysm of the sinus of Valsalva into the pulmonary artery (Shiraishi, Watarida, & others) 1998;65:1458-9,CR

**Pulmonary circulation**

- Reversal of pulmonary arteriovenous malformation after diversion of anomalous hepatic drainage (Lee, Menkis, & Rosenberg) 1998;65:848-9,CR
- Superior hydrodynamics of a modified cavopulmonary connection for the Norwood operation (Sievers, Gerdes, & others) 1998;65:1741-5\*
- Transesophageal echocardiography in an operation for pulmonary arteriovenous malformation (Almeida, Thomson, & others) 1998;65:267-8,CR

**Pulmonary emphysema**

- Bilateral lung volume reduction surgery via median sternotomy for severe pulmonary emphysema (Date, Goto, & others) 1998;65:939-42\*

- Bovine pericardium versus bovine collagen to buttress staples for lung reduction operations (Fischel & McKenna) 1998;65:217-9\*

- Lung reduction operation and resection of pulmonary nodules in patients with severe emphysema (DeRose, Argenziano, & others) 1998;65:314-8\*

- Morphologic grading of the emphysematous lung and its relation to improvement after lung volume reduction surgery (Wisser, Klepetko, & others) 1998;65:793-9\*

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- Endothelial-dependent dynamic and antithrombotic properties of aortic and pulmonary valves (Pompilio, Rossoni, & others) 1998;65:986-92\*

- Pulmonary root replacement with the Freestyle stentless aortic xenograft in growing pigs (Schoof, Hazekamp, & others) 1998;65:1726-9\*

- Pulmonary valve replacement: a role for mechanical prostheses? (Rosti, Murzi, & others) 1998;65:889-90,CP; Reply (Williams) 1998;65:890,CP

**Pulmonary veins**

- Atrial septal displacement for repair of anomalous pulmonary venous return into the right atrium (Hiramatsu, Takashi, & others) 1998;65:1110-4\*

- Modified repair of mixed anomalous pulmonary venous connection (van Son, Hambsch, & Mohr) 1998;65:1441-2,CR

- Modified superior approach for repair of supracardiac and mixed total anomalous pulmonary venous drainage (Serraf, Belli, & others) 1998;65:1391-3\*

- Pulmonary vein injury through repetitive clip friction: an unusual cause of hemothorax (Sirbu, Herse, & others) 1998;65:548-50,CR

- An unusual type of total anomalous pulmonary venous connection (Lobdell, Walters, & Hakimi) 1998;65:598,CP

**Pyelonephritis, xanthogranulomatous**

- An unusual cause of hemoptysis (Urbat, Haapaniemi, & others) 1998;65:539-40,CR

**Radial artery**

- Easy harvesting of radial artery with ultrasonically activated scalpel (Posacioğlu, Atay, & others) 1998;65:984-5\*

- Radial artery use in bypass grafting does not change digital blood flow or hand function (Dumanian, Segalman, & others) 1998;65:1284-7\*

- Simplified method for candidate selection for radial artery harvesting (Johnson, Cromartie, & others) 1998;65:1167,HW

**Radiation injuries**

- Surgical management of radiation-induced heart disease (Veeragandham & Goldin) 1998;65:1014-9\*

**Radionuclide imaging**

- Intraoperative gamma probe-directed biopsy of asymptomatic suspected bone metastases (Robinson, Preksto, & others) 1998;65:1426-32\*

**Radiotherapy**

- Neoadjuvant and adjuvant trials in non-small cell lung cancer (Einhorn) 1998;65:208-11\*

**Receptors, complement**

- Soluble complement receptor type I limits damage during revascularization of ischemic myocardium (Lazar, Hamasaki, & others) 1998;65:973-7\*

**Receptors, thrombin**

- The platelet thrombin receptor and postoperative bleeding (Ferraris, Ferraris, & others) 1998;65:352-8\*

**Reoperation**

- Heart retransplantation: a 23-year single-center clinical experience (Schnetzler, Pavie, & others) 1998;65:978-83\*



- Late results and reintervention after aortic valvotomy for critical aortic stenosis in neonates and infants (Hawkins, Minich, & others) 1998;65:1758-63\*
- Long-term results after repeated surgical removal of pulmonary metastases (Kandioler, Krömer, & others) 1998;65:909-12\*
- Management of bleeding complications in redo cardiac operations (Smith) 1998;65:S2-8\*
- Re-replacement for prosthetic valve dysfunction: analysis of long-term results and risk factors (Morishita, Mawatari, & others) 1998;65:696-9\*
- Risk of reoperative valve replacement for failed mitral and aortic bioprostheses (Akins, Buckley, & others) 1998;65:1545-52\*
- Should angiographically disease-free saphenous vein grafts be replaced at the time of redo coronary artery bypass grafting? (Mehta, Weinberg, & others) 1998;65:17-23\*
- Thoracoscopic operations on reoperated chests (Yim, Liu, & others) 1998;65:328-30\*
- Reperfusion**
- Arrest duration influences postcardioplegia electrophysiologic recovery and reperfusion arrhythmias (Murrah, Ferguson, & others) 1998;65:1003-8\*
- Controlled reperfusion protects lung grafts during a transient early increase in permeability (Bhabra, Hopkinson, & others) 1998;65:187-97\*
- Retrograde infusion of lidocaine or L-arginine before reperfusion reduces myocardial infarct size (Lee, Nitta, & others) 1998;65:1353-9\*
- Reperfusion injury**
- Cardioprotection by local heating: improved myocardial salvage after ischemia and reperfusion (Gowda, Yang, & others) 1998;65:1241-7\*
- Demonstration of ischemia-reperfusion injury separate from postoperative infarction in coronary artery bypass graft patients (Fransen, Maessen, & others) 1998;65:48-53\*
- Early detection of cardiac damage with heart fatty acid-binding protein after cardiac operations (Suzuki, Sawa, & others) 1998;65:54-8\*
- Increased myocardial tumor necrosis factor- $\alpha$  in a crystalloid-perfused model of cardiac ischemia-reperfusion injury (Meldrum, Cleveland, & others) 1998;65:439-43\*
- Microvascular permeability of the non-heart-beating rabbit lung after warm ischemia and reperfusion: role of neutrophil elastase (Kishima, Takeda, & others) 1998;65:913-8\*
- Myocardial oxygenation during terminal warm blood cardioplegia (Kawasuji, Tomita, & others) 1998;65:1260-4\*
- The role of platelet-activating factor in regional myocardial ischemia-reperfusion injury (Qayumi, English, & others) 1998;65:1690-7\*
- Reports**
- 1995 coronary artery bypass risk model: The Society of Thoracic Surgeons Adult Cardiac National Database (Shroyer, Grover, & Edwards) 1998;65:879-84,RE
- 1997 meeting, Southern Thoracic Surgical Association (Pennington) 1998;65:606,RE
- Report on "Understanding the New World of Health Care" 1998;65:1832,RE
- Thirty-fourth annual meeting of The Society of Thoracic Surgeons (Pairolero) 1998;65:1498-507,RE
- The Thoracic Surgery Foundation for Research and Education 1998;65:885,RE; 1998;65:1190,RE
- Updates to the data quality review program: The Society of Thoracic Surgeons Adult Cardiac National Database (Shroyer, Edwards, & Grover) 1998;65:1494-7,RE
- Respiratory distress syndrome, adult**
- Nitric oxide potentiates acute lung injury in an isolated rabbit lung model (Rayhrer, Edmisten, & others) 1998;65:935-8\*
- Respiratory insufficiency**
- Induced hypothermia in critical respiratory failure after lung transplantation (Eriksson & Steen) 1998;65:827-9,CR
- Respiratory paralysis**
- Ultrasound detection of diaphragmatic paralysis after cardiac operations (Yahagi, Watanabe, & Kumon) 1998;65:1841,CP
- Retinal artery**
- Branch retinal artery occlusion from a retained left atrial catheter 21 years after operation (Drummond-Webb, Bokesch, & others) 1998;65:254-5,CR
- Rhabdomyoma**
- Cardiac rhabdomyomas and obstructive left heart disease: histologically but not functionally benign (Black, Kadletz, & others) 1998;65:1388-90\*
- Obstructive rhabdomyoma and univentricular physiology: a rare combination (Dyamenahalli, Black, & others) 1998;65:835-7,CR
- Rheumatic heart disease**
- Is atrial fibrillation resulting from rheumatic mitral valve disease a proper indication for the maze procedure? (Fukada, Morishita, & others) 1998;65:1566-70\*
- Rib fractures**
- Use of 3.5-mm acetabular reconstruction plates for internal fixation of flail chest injuries (Oyarzun, Bush, & others) 1998;65:1471-4,HW
- Ribs**
- Parosteal osteosarcoma from a rib (Jatoi, Garcia-Moliner, & Daly) 1998;65:265-7,CR
- Risk factors**
- Deep sternal wound infection: risk factors and outcomes (Borger, Rao, & others) 1998;65:1050-6\*
- Intraaortic balloon pump in open heart operations: 10-year follow-up with risk analysis (Arafa, Pedersen, & others) 1998;65:741-7\*
- Left ventricular volume predicts postoperative course in patients with ischemic cardiomyopathy (Yamaguchi, Ino, & others) 1998;65:434-8\*
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- Mediastinitis after cardiovascular operations: a case-control study of risk factors (Bitkover & Gårdlund) 1998;65:36-40\*
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- Re-replacement for prosthetic valve dysfunction: analysis of long-term results and risk factors (Morishita, Mawatari, & others) 1998;65:696-9\*
- Risk factors for death after heart transplantation: does a single-center experience correlate with multicenter registries? (McCarthy, McCarthy, & others) 1998;65:1574-9\*
- Ross procedure**
- Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998;65:1450-2,CR
- The Ross operation in children: 10-year experience (Elkins, Knott-Craig, & others) 1998;65:496-501\*
- The Ross procedure: shorter hospital stay, decreased morbidity, and cost effective (Jaggers, Harrison, & others) 1998;65:1553-8\*

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**Safety management**

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Early injury to the media after saphenous vein grafting (O'Brien, Ormont, & others) 1998;65:1273-8\*

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Hypoxia increases vasodilator release from internal mammary artery and saphenous vein grafts (Pearson, Evora, & others) 1998;65:1220-5\*

Method for creation of the aortotomy site for saphenous vein grafts (Alexander, Votapka, & others) 1998;65:861-2,HW

Modified minimally invasive technique for greater saphenous vein harvesting (Slaughter, Gerchar, & Pappas) 1998;65:571-2,HW

Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998;65:1135-7,CR

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Value of reversed saphenous vein in minimally invasive direct coronary artery bypass graft procedures (Machiraju, Cullig, & others) 1998;65:625-7\*

**Sepsis syndrome**

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Inflammatory mediators in adults undergoing cardiopulmonary bypass: (Ashraf, Butler, & others) 1998;65:480-4\*

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**Sex characteristics**

The role of gender in heart transplantation (Prendergast, Furukawa, & others) 1998;65:88-94\*

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Growth of the subclavian artery and the anastomosis in Blalock-Taussig shunt: absorbable versus nonabsorbable suture (Yoshimura, Yamaguchi, & others) 1998;65:1746-50\*

Intraluminal shunting for coronary bypass (Wallsh) 1998;65:1191,CP; Reply (Rivetti) 1998;65:1191-2,CP

Side-to-side aorto-Gore-Tex central shunt (Gates, Laks, & Johnson) 1998;65:515-6\*

Successful thrombolysis of an occluded modified Blalock shunt three days after operation (Malm, Holmqvist, & others) 1998;65:1453-5,CR

Temporary aorto-pulmonary shunt for pulmonary hypertension after truncus arteriosus repair (Katsumata, Shinfield, & Westaby) 1998;65:1764-5,CR

**Sinus of Valsalva**

Aneurysm of sinus of Valsalva dissecting into interventricular septum (Choudhary, Bhan, & others) 1998;65:735-40\*

Aneurysm of the left sinus of Valsalva producing aortic valve regurgitation and myocardial ischemia (Takahara, Sudo, & others) 1998;65:535-7,CR

Repair of aortico-left ventricular tunnel originating from the left aortic sinus (Michielon, Sorbara, & Casarotto) 1998;65:1780-3,CR

Unruptured aneurysm of the sinus of Valsalva into the pulmonary artery (Shiraishi, Watarida, & others) 1998;65:1458-9,CR

**Skeletonization**

Effect of skeletonizing dissection on the internal thoracic artery (Sasajima, Wu, & others) 1998;65:1009-13\*

Is semiskeletonization of internal thoracic artery another new harvest technique? (Choi, Yang, & Lee) 1998;65:896-7,CP

**The Society of Thoracic Surgeons**

Change (Kaiser) 1998;65:1,PA

First annual meeting of The Society of Thoracic Surgeons on the Web (Kaiser) 1998;65:1508,CN

1995 coronary artery bypass risk model: The Society of Thoracic Surgeons Adult Cardiac National Database (Shroyer, Grover, & Edwards) 1998;65:879-84,RE

Thirty-fourth annual meeting (Pairolero) 1998;65:1498-507,RE

Updates to the data quality review program: The Society of Thoracic Surgeons Adult Cardiac National Database (Shroyer, Edwards, & Grover) 1998;65:1494-7,RE

**Southern Thoracic Surgical Association**

1997 meeting, Southern Thoracic Surgical Association (Pennington) 1998;65:606,RE

It's not too late to wake up: be proactive and a leader in the field (Arom) 1998;65:8-12,PA

**Special presentations**

The Medicare program and thoracic surgery: crisis or opportunity? (Gardner) 1998;65:905-8\*

Recent developments and evolving techniques of mitral valve reconstruction (Spencer, Galloway, & others) 1998;65:307-13\*

**Special report**

Stentless aortic bioprostheses: compelling data from the Second International Symposium (Westaby, Huysmans, & David) 1998;65:235-40\*

**Spinal cord**

The role of spinal angiography in operations on the thoracic aorta: myth or reality? (Heinemann, Brassel, & others) 1998;65:346-51\*

**Spine**

Hemivertebrectomy for apical chest tumors: is the risk justified by the outcome? (Spaggiari, Rusca, & others) 1998;65:1515-6,CP; Reply (Grunenwald) 1998;65:1516-7,CP

Resection of a chest chondrosarcoma invading the spine and the aorta (Noirhomme, d'Udekem, & others) 1998;65:534-5,CR

**Splanchnic nerves**

Thoracoscopic splanchnicectomy for control of intractable pain in pancreatic cancer (Le Pimpec Barthes, Chapuis, & others) 1998;65:810-3\*

**Stents**

One-stage sternal stenting with homograft bone after cardiac operation in pediatric patients (Chu, Chang, & others) 1998;65:846-7,CR



Pulmonary root replacement with the Freestyle stentless aortic xenograft in growing pigs (Schoof, Hazekamp, & others) 1998;65:1726-9\*

Repair of ruptured anastomotic aneurysm: elephant trunk technique after endovascular covered stents (Ezure, Kotsuka, & others) 1998;65:241-3,CR

Stentless aortic bioprostheses: compelling data from the Second International Symposium (Westaby, Huysmans, & David) 1998;65:235-40\*

#### Sternotomy

Bilateral lung volume reduction surgery via median sternotomy for severe pulmonary emphysema (Date, Goto, & others) 1998;65:939-42\*

Biomechanical study of sternal closure using rigid fixation techniques in human cadavers (Ozaki, Buchman, & others) 1998;65:1660-5\*

Deep sternal wound infection: risk factors and outcomes (Borger, Rao, & others) 1998;65:1050-6\*

Facile minimally invasive cardiac surgery via ministernotomy (Gundry, Shattuck, & others) 1998;65:1100-4\*

Full-spectrum cardiac surgery through a minimal incision: mini-sternotomy (lower half) technique (Doty, RiRusso, & Doty) 1998;65:573-7,HW

Limited lower sternotomy for minimally invasive mitral valve replacement (Nair & Sharpe) 1998;65:273-4,HW

Minimally invasive aortic valve replacement via partial sternotomy (Tam & Almeida) 1998;65:275-6,HW

Minimally invasive reversed Z sternotomy for aortic valve replacement (Nair & Sharpe) 1998;65:1165-6,HW

Prospective trial of catheter irrigation and muscle flaps for sternal wound infection (Rand, Cochran, & other) 1998;65:1046-9\*

Right-sided partial sternotomy for minimally invasive valve operation: "open door method" (Kasegawa, Shimokawa, & others) 1998;65:569-70,HW

Simultaneous total aortic replacement without a sternotomy incision (Shiia, Yasuda, & others) 1998;65:546-8,CR

Transxiphoid approach without median sternotomy for the repair of atrial septal defects (Barbero-Marcial, Tanamati, & others) 1998;65:771-4\*

#### Sternum

One-stage sternal stenting with homograft bone after cardiac operation in pediatric patients (Chu, Chang, & others) 1998;65:846-7,CR

Retrosternal fat pad for prevention of suppurative sternitis (Kapadia & Russo) 1998;65:601,CP; Reply (Paterson) 1998;65:601,CP

Right parasternal incision: a uniform minimally invasive approach for valve operations (Lazzara & Kidwell) 1998;65:271-2,HW

#### Stroke volume

Left ventricular volume predicts postoperative course in patients with ischemic cardiomyopathy (Yamaguchi, Ino, & others) 1998;65:434-8\*

#### Subclavian artery

Coarctation repair: modification of end-to-end anastomosis with subclavian flap angioplasty (Hovaguimian, Senthilnathan, & others) 1998;65:1751-4\*

Growth of the subclavian artery and the anastomosis in Blalock-Taussig shunt: absorbable versus nonabsorbable suture (Yoshimura, Yamaguchi, & others) 1998;65:1746-50\*

#### Superior vena cava syndrome

Homograft and SVC syndrome (Oyarzun & McCormick) 1998;65:1836-7,CP; Reply (Ohri & Townsend) 1998;65:1837,CP

#### Surgical flaps

Coarctation repair: modification of end-to-end anastomosis with subclavian flap angioplasty (Hovaguimian, Senthilnathan, & others) 1998;65:1751-4\*

Prospective trial of catheter irrigation and muscle flaps for sternal wound infection (Rand, Cochran, & other) 1998;65:1046-9\*

Treatment of mediastinitis: early modified Robicsek closure and pectoralis major advancement flaps (El Gamel, Yonan, & others) 1988;65:41-7\*

#### Surgical instruments

Clamp for coronary artery operations (Walia & Kole) 1998;65:1475-6,HW

A cost-effective retractor and heart stabilizer for minimal-access coronary bypass (Rousou, Engelman, & others) 1998;65:1479-80,HW

Cuffed venous return cannulas in minimally invasive cardiac operations (Al-Ebrahim & El Shafei) 1998;65:1509,CP; Reply (Benetti) 1998;65:1509,CP

Easy harvesting of radial artery with ultrasonically activated scalpel (Posacioğlu, Atay, & others) 1998;65:984-5\*

Thoracoscopic limited pericardial resection with an ultrasonic scalpel (Ohtsuka, Wolf, & others) 1998;65:855-6,HW

Use of an ultrasonic scalpel as an alternative to electrocautery in patients with pacemakers (Epstein, Mayer, & Duncan) 1998;65:1802-4,HW

#### Surgical procedures, minimally invasive

Bilateral thoracoscopic minimally invasive direct coronary artery bypass grafting using internal thoracic arteries (Watanabe, Misaki, & others) 1998;65:1673-5\*

Clinical experience with thoracoscopic TMR versus minimally invasive approach (Vincent) 1998;65:599-600,CP; Reply (deGuzman & Cohn) 1998;65:600,CP

A cost-effective retractor and heart stabilizer for minimal-access coronary bypass (Rousou, Engelman, & others) 1998;65:1479-80,HW

Cuffed venous return cannulas in minimally invasive cardiac operations (Al-Ebrahim & El Shafei) 1998;65:1509,CP; Reply (Benetti) 1998;65:1509,CP

Facile minimally invasive cardiac surgery via ministernotomy (Gundry, Shattuck, & others) 1998;65:1100-4\*

Full-spectrum cardiac surgery through a minimal incision: mini-sternotomy (lower half) technique (Doty, RiRusso, & Doty) 1998;65:573-7,HW

Limited lower sternotomy for minimally invasive mitral valve replacement (Nair & Sharpe) 1998;65:273-4,HW

Lung herniation secondary to minimally invasive direct coronary artery bypass grafting (Deeik, Memon, & Sugimoto) 1998;65:1772-4,CR

Minimal access surgical techniques in coronary artery bypass grafting for triple-vessel disease (Lin, Chang, & others) 1998;65:407-12\*

Minimally invasive aortic valve replacement via partial sternotomy (Tam & Almeida) 1998;65:275-6,HW

Minimally invasive axillary-coronary artery bypass (Morishita, Shiiku, & Abe) 1998;65:1196-7,CP; Reply (Knight) 1998;65:1197,CP

Minimally invasive axillary-coronary artery bypass (Sakakibara) 1998;65:1197,CP; Reply (Knight) 1998;65:1197,CP

Minimally invasive bilateral internal mammary artery bypass grafting (Guliernos, Dangel, & Schüler) 1998;65:1774-6,CR

Minimally invasive cardiac surgical techniques in the closure of ventricular septal defect: an alternative approach (Lin, Chang, & others) 1998;65:165-9\*

**Surgical procedures, minimally invasive (cont'd)**

- Minimally invasive coronary artery bypass (Pfister & Resano) 1998;65:1195,CP; Reply (Ancalmo & Busby) 1998;65:1195,CP
- Minimally invasive coronary artery bypass grafting using the right gastroepiploic artery (Voutilainen, Verkkala, & others) 1998;65:444-8\*
- Minimally invasive coronary artery bypass grafting: what is the best approach? (Krause) 1998;65:1196,CP; Reply (Ancalmo & Busby) 1998;65:1196,CP
- Minimally invasive diaphragm plication in an infant (Van Smith, Jacobs, & Burke) 1998;65:842-4,CR
- Minimally invasive mitral operations (Konertz) 1998;65:1509-10,CP; Reply (Arom & Emery) 1998;65:1510,CP
- Minimally invasive repair of atrial septal defects (Black & Freedom) 1998;65:765-7\*
- Minimally invasive reversed Z sternotomy for aortic valve replacement (Nair & Sharpe) 1998;65:1165-6,HW
- Minimally invasive surgical technique for the treatment of multivessel coronary artery disease (Guliemos, Knaut, & others) 1998;65:1331-4\*
- Minimally invasive valve operations (Cosgrove, Sabik, & Navia) 1998;65:1535-9\*
- Modified minimally invasive technique for greater saphenous vein harvesting (Slaughter, Gerchar, & Pappas) 1998;65:571-2,HW
- One-day admission for lung lobectomy: an incidental result of a clinical pathway (Tovar, Roethe, & others) 1998;65:803-6\*
- Reduction of the inflammatory response in patients undergoing minimally invasive coronary artery bypass grafting (Gu, Mariani, & others) 1998;65:420-4\*
- Right parasternal incision: a uniform minimally invasive approach for valve operations (Lazzara & Kidwell) 1998;65:271-2,HW
- Right-sided partial sternotomy for minimally invasive valve operation: "open door method" (Kasegawa, Shimokawa, & others) 1998;65:569-70,HW
- Value of reversed saphenous vein in minimally invasive direct coronary artery bypass graft procedures (Machiraju, Cullig, & others) 1998;65:625-7\*

**Surgical stapling**

- Fissureless lobectomy (Temes, Willms, & others) 1998;65:282-4,HW

**Suture techniques**

- Semicontinuous suture technique for all prosthetic valve insertions: the "hoist" technique (Ruchat, Hurni, & others) 1998;65:859-60,HW

**Sutures**

- Bovine pericardium versus bovine collagen to buttress staples for lung reduction operations (Fischel & McKenna) 1998;65:217-9\*
- Growth of the subclavian artery and the anastomosis in Blalock-Taussig shunt: absorbable versus nonabsorbable suture (Yoshimura, Yamaguchi, & others) 1998;65:1746-50\*

**Tachycardia, supraventricular**

- Temporary atrial electrode for the treatment of supraventricular tachycardia after cardiac operations (Mehmanesh, Lange, & Hagl) 1998;65:632-6\*

**Takayasu's arteritis**

- Inflammatory aneurysm or Takayasu's disease? (Burke & Virmani) 1998;65:1835,CP; Reply (Girardi & Coselli) 1998;65:1835-6,CP

**Temperature**

- Anesthetic technique influences brain temperature during cardiopulmonary bypass in dogs (Wass, Cable, & others) 1998;65:454-60\*

**Tetralogy of Fallot**

- Left pulmonary artery kinking caused by outflow tract dilatation after transannular patch repair of tetralogy of Fallot (McElhinney, Parry, & others) 1998;65:1120-6\*

**Thermography**

- Thermal coronary angiography in CABG (Robicsek) 1998;65:303,CP; Reply (Mohr) 1998;65:303-4,CP

**Thoracic arteries**

- Angiographic follow-up of internal thoracic artery for free bypass grafting (Masuda, Matsuda, & others) 1998;65:731-4\*
- Bilateral thoracoscopic minimally invasive direct coronary artery bypass grafting using internal thoracic arteries (Watanabe, Misaki, & others) 1998;65:1673-5\*
- Effect of skeletonizing dissection on the internal thoracic artery (Sasajima, Wu, & others) 1998;65:1009-13\*
- Is semiskeletonization of internal thoracic artery another new harvest technique? (Choi, Yang, & Lee) 1998;65:896-7,CP
- Left anterior descending endarterectomy and internal thoracic artery bypass for diffuse coronary disease (Gill, Beanlands, & others) 1998;65:659-62\*
- Midterm results of free internal thoracic artery grafting for myocardial revascularization (Tashiro, Nakamura, & others) 1998;65:951-4\*

**Thoracic surgery**

- Abciximab and excessive bleeding in patients undergoing emergency cardiac operations (Gammie, Zenati, & others) 1998;65:465-9\*
- Activation of coagulation and fibrinolysis during cardiothoracic operations (Hunt, Parratt, & others) 1998;65:712-8\*
- Aprotinin enhances the endogenous release of interleukin-10 after cardiac operations (Hill, Diego, & others) 1998;65:66-9\*
- Are circulating adhesion molecules specifically changed in cardiac surgical patients? (Boldt, Kumle, & others) 1998;65:608-14\*
- The birth of intracardiac surgery: a semicentennial tribute (June 10, 1948-1998) (Dávila) 1998;65:1809-20,SH
- Cantrell's syndrome: a challenge to the surgeon (Vazquez-Jimenez, Muehler, & others) 1998;65:1178-85,CV
- Cardiac operations in patients with cirrhosis (Klemperer, Ko, & others) 1998;65:85-7\*
- Central venous pressure lines in children undergoing heart operations (Nozar & Zuniga) 1998;65:603,CP
- Cerebral emboli and serum S100 $\beta$  during cardiac operations (Grocott, Croughwell, & others) 1998;65:1645-50\*
- Effect of nitric oxide gas on platelets during open heart operations (Mellgren, Mellgren, & others) 1998;65:1335-41\*
- Effect of pressure on myocardial function after 6-hour preservation with blood cardioplegia (Li, Sullivan, & others) 1998;65:115-24\*
- Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Matthew, Spotnitz, & others) 1998;65:592-3,UP
- Full-spectrum cardiac surgery through a minimal incision: mini-sternotomy (lower half) technique (Doty, RiRusso, & Doty) 1998;65:573-7,HW
- Globalization (Replogle) 1998;65:901-2,ED



- An inexpensive method of heart stabilization during coronary artery operations without cardiopulmonary bypass (Lucchetti & Angelini) 1998;65:1477-8,HW
- Influence of high- and low-dose aprotinin on activation of hemostasis in open heart operations (Dietrich, Schöpf, & others) 1998;65:70-6\*
- International aspects of cardiac surgery (Pezzella) 1998;65:903-4,ED
- Intraaortic balloon pump in open heart operations: 10-year follow-up with risk analysis (Arafa, Pedersen, & others) 1998;65:741-7\*
- Intravenous diltiazem and acute renal failure after cardiac operations (Young, Diab, & Kirsh) 1998;65:1316-9\*
- It's not too late to wake up: be proactive and a leader in the field (Arom) 1998;65:8-12,PA
- Leaflet's free edge suspension for correction of aortic insufficiency associated with ventricular septal defect (Kalangos, Beghetti, & others) 1998;65:566-8,HW
- Limited lower sternotomy for minimally invasive mitral valve replacement (Nair & Sharpe) 1998;65:273-4,HW
- "Low SVR syndrome" or SIRS after cardiac operations? (Myles & Davis) 1998;65:298,CP
- The Medicare program and thoracic surgery: crisis or opportunity? (Gardner) 1998;65:905-8\*
- Minimally invasive aortic valve replacement via partial sternotomy (Tam & Almeida) 1998;65:275-6,HW
- Minimally invasive cardiac surgical techniques in the closure of ventricular septal defect: an alternative approach (Lin, Chang, & others) 1998;65:165-9\*
- Open heart operations after renal transplantation (Tireli, Korkut, & others) 1998;65:596,CP
- Patterns and potential value of cardiac troponin I elevations after pediatric cardiac operations (Hirsch, Dent, & others) 1998;65:1394-9\*
- Platelet and neutrophil activation during cardiac surgical procedures: impact of cardiopulmonary bypass (Morse, Adams, & Magnani) 1998;65:691-5\*
- Posterior distribution of infarcts in strokes related to cardiac operations (Barbut, Grassineau, & others) 1998;65:1656-9\*
- Resection of a chest chondrosarcoma invading the spine and the aorta (Noirhomme, d'Udekem, & others) 1998;65:534-5,CR
- Retooling thoracic surgery education for the 21st century (Baumgartner) 1998;65:13-6\*
- The safety of cardiac operations in the liver transplant recipient (Prabhakar, Testa, & others) 1998;65:1060-4\*
- Shed mediastinal blood transfusion after cardiac operations: a cost-effectiveness analysis (Kilgore & Pacifico) 1998;65:1248-54\*
- Surgical management of aortopulmonary window (Di Bella & Gladstone) 1998;65:768-70\*
- Total simultaneous repair of coarctation and intracardiac pathology in adult patients (Morris, Samuels, & Brockman) 1998;65:1698-702\*
- Tracheobronchial laceration after double-lumen intubation for thoracic procedures (Spaggiari, Rusca, & others) 1998;65:1837-8,CP; Reply (Massard, Hentz, & Wihlm) 1998;65:1838-9,CP
- Transthoracic, transdiaphragmatic excision of simultaneous lung and adrenal lesions (Flores, Goldstein, & others) 1998;65:833-5,CR
- Ultrasound detection of diaphragmatic paralysis after cardiac operations (Yahagi, Watanabe, & Kumon) 1998;65:1841,CP

Use of aprotinin in pediatric organ transplantation (Spray) 1998;65:S71-3\*

Vertical displacement of the beating heart by the Octopus Tissue Stabilizer: influence on coronary flow (Gründeman, Borst, & others) 1998;65:1348-52\*

#### Thoracoscopy

Bilateral thoracoscopic minimally invasive direct coronary artery bypass grafting using internal thoracic arteries (Watanabe, Misaki, & others) 1998;65:1673-5\*

Bovine pericardium versus bovine collagen to buttress staples for lung reduction operations (Fischel & McKenna) 1998;65:217-9\*

Clinical experience with thoracoscopic TMR versus minimally invasive approach (Vincent) 1998;65:599-600,CP; Reply (deGuzman & Cohn) 1998;65:600,CP

Experience with the two-windows method for mediastinal lymph node dissection in lung cancer (Iwasaki, Kaga, & others) 1998;65:800-2\*

Minimal access surgical techniques in coronary artery bypass grafting for triple-vessel disease (Lin, Chang, & others) 1998;65:407-12\*

Port-Access coronary artery bypass grafting with the use of cardiopulmonary bypass and cardioplegic arrest (Reichenspurner, Guliernos, & others) 1998;65:413-8\*

Thoracoscopic limited pericardial resection with an ultrasonic scalpel (Ohtsuka, Wolf, & others) 1998;65:855-6,HW

Thoracoscopic lobectomy with endoarterial vascular control: an experimental study in swine (Conlan, Hsi, & others) 1998;65:336-9\*

Thoracoscopic operation for secondary pneumothorax under local and epidural anesthesia in high-risk patients (Mukaida, Andou, & others) 1998;65:924-6\*

Thoracoscopic operations on reoperated chests (Yim, Liu, & others) 1998;65:328-30\*

Thoracoscopic splachnicectomy for control of intractable pain in pancreatic cancer (Le Pimpec Barthes, Chapuis, & others) 1998;65:810-3\*

Thoracoscopic transmyocardial laser revascularization (Horvath) 1998;65:1439-41,CR

Thoracoscopic transmyocardial revascularization (Milano, Pietrabissa, & Bortolotti) 1998;65:1510-1,CP; Reply (deGuzman & Cohn) 1998;65:1511,CP

Video-assisted thoracoscopic surgery for fibrinopurulent pleural empyema in 67 patients (Striffler, Gugger, & others) 1998;65:319-23\*

#### Thoracostomy

Open-window thoracostomy and thoracomyoplasty to manage chronic pleural empyema (García-Yuste, Ramos, & others) 1998;65:818-22\*

#### Thoracotomy

Combined TMR and mitral valve replacement via left thoracotomy (Hughes, Donovan, & others) 1998;65:1141-3,CR

Impact of retrograde cerebral perfusion with posterolateral thoracotomy on distal arch aneurysm repair (Yamashita, Okada, & others) 1998;65:955-60\*

Partial breast necrosis after MIDCABG via small anterolateral thoracotomy (Har-Shai, Ammar, & others) 1998;65:553-5,CR

Postthoracotomy pain (Richardson, Smith, & others) 1998;65:300-1,CP; Reply (Salzer) 1998;65:301-2,CP

#### Thrombolytic therapy

Successful thrombolysis of an occluded modified Blalock shunt three days after operation (Malm, Holmqvist, & others) 1998;65:1453-5,CR

**Thrombosis**

Endothelial-dependent dynamic and antithrombotic properties of aortic and pulmonary valves (Pompilio, Rossoni, & others) 1998;65:986-92\*

**Thromboxanes**

Thromboxane production in human lung during cardiopulmonary bypass: beneficial effect of aspirin? (Erez, Erman, & others) 1998;65:101-6\*

**Thymectomy**

Long-term clinical outcome after transcervical thymectomy for myasthenia gravis (Bril, Kojic, & others) 1998;65:1520-2\*

**Thymoma**

Steroids for pulmonary metastases of thymoma (Weissberg) 1998;65:1197-8,CP; Reply (Kodama, Higashiyama, & others) 1998;65:1198,CP

**Tissue donors**

Allograft heart valve viability and valve-processing variables (Gall, Smith, & others) 1998;65:1032-8\*

Metabolic detriment in donor heart valves induced by ischemia and cryopreservation (Lu, Chang, & others) 1998;65:24-7\*

The role of gender in heart transplantation (Prendergast, Furukawa, & others) 1998;65:88-94\*

**Tomography**

Infectious mediastinitis after cardiac operations: computed tomographic findings (Misawa, Fuse, & Hasegawa) 1998;65:622-4\*

Left main coronary artery patch angioplasty: midterm experience and follow-up with spiral computed tomography (Meseguer, Hurlé, & others) 1998;65:1594-8\*

MRI as an alternative to CT-guided biopsy of adrenal masses in patients with lung cancer (Schwartz, Ginsberg, & others) 1998;65:193-7\*

Positron emission tomography in lung cancer (Lowe & Naunheim) 1998;65:1821-9,CV

**Trachea**

Experimental study of a new porous tracheal prosthesis (Guijarro Jorge, Cantó, & others) 1998;65:1830-1,UP

Management of major tracheobronchial injuries: a 28-year experience (Rossbach, Johnson, & others) 1998;54:182-6\*

Percutaneous placement of tracheal T tube (Wood, Reynolds, & Vallières) 1998;65:557-8,CR

Primary malignant melanoma of the trachea (Duarte, Gal, & Mansour) 1998;65:559-60,CR

Resection with curative intent after endoscopic treatment of airway obstruction (Daddi, Puma, & others) 1998;65:203-7\*

Tracheobronchial laceration after double-lumen intubation for thoracic procedures (Spaggiari, Rusca, & others) 1998;65:1837-8,CP; Reply (Massard, Hentz, & Wihlm) 1998;65:1838-9,CP

**Tranexamic acid**

Prophylactic tranexamic acid and  $\epsilon$ -aminocaproic acid for primary myocardial revascularization (Hardy, Bélisle, & others) 1998;65:371-6\*

**Transplantation, autologous**

Reconstruction of supraaortic stenosis with autologous pulmonary artery (Al-Halees, Prabhakar, & Galal) 1998;65:532-4,CR

**Transplantation, homologous**

Allograft heart valve viability and valve-processing variables (Gall, Smith, & others) 1998;65:1032-8\*

Behavior of mitral allografts in the tricuspid position in the growing sheep model (Bernal, Rabasa, & others) 1998;65:1326-30\*

Homograft and SVC syndrome (Oyarzun & McCormick) 1998;65:1836-7,CP; Reply (Ohri & Townsend) 1998;65:1837,CP

One-stage sternal stenting with homograft bone after cardiac operation in pediatric patients (Chu, Chang, & others) 1998;65:846-7,CR

Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998;65:1450-2,CR

Should aortic valve homograft be cryopreserved? (Ohkado, Hachida, & others) 1998;65:1083-6\*

**Transposition of great vessels**

Direct reconstruction of the pulmonary artery during the arterial switch operation: an interesting surgical option with excellent hemodynamic results (Carrel, Mattila, & others) 1998;65:1115-9\*

Esophageal compression by the aorta after arterial switch (McElhinney, Reddy, & others) 1998;65:246-8,CR

Two-stage correction of transposition of great arteries with complete atrioventricular canal (Sakamoto, Galletti, & others) 1998;65:250-2,CR

**Treatment outcome**

Bronchopulmonary aspergilloma: a reappraisal (Chatzimichailis, Massard, & others) 1998;65:927-9\*

Clinical results of the staged Fontan procedure in high-risk patients (Masuda, Kado, & others) 1998;65:1721-5\*

Deep sternal wound infection: risk factors and outcomes (Borger, Rao, & others) 1998;65:1050-6\*

Effect of anticoagulation protocol on outcome in patients undergoing CABG with heparin-bonded cardiopulmonary bypass circuits (Aldea, O'Gara, & others) 1998;65:425-33\*

Heart retransplantation: a 23-year single-center clinical experience (Schnetzler, Pavie, & others) 1998;65:978-83\*

Increased risk and decreased morbidity of coronary artery bypass grafting between 1986 and 1994 (Estafanous, Loop, & Higgins) 1998;65:383-9\*

Intraaortic balloon pump in open heart operations: 10-year follow-up with risk analysis (Arafa, Pedersen, & others) 1998;65:741-7\*

Late outcome of coronary artery bypass grafting in young versus older patients (Rohrer-Gubler, Niederhauser, & Turina) 1998;65:377-82\*

Late results and reintervention after aortic valvotomy for critical aortic stenosis in neonates and infants (Hawkins, Minich, & others) 1998;65:1758-63\*

Left main coronary artery patch angioplasty: midterm experience and follow-up with spiral computed tomography (Meseguer, Hurlé, & others) 1998;65:1594-8\*

Long-term clinical outcome after transcervical thymectomy for myasthenia gravis (Bril, Kojic, & others) 1998;65:1520-2\*

Long-term results after repair of complete atrioventricular septal defects: analysis of risk factors (Günther, Mazzitelli, & others) 1998;65:754-60\*

Long-term results after repeated surgical removal of pulmonary metastases (Kandioler, Krömer, & others) 1998;65:909-12\*

Midterm results of free internal thoracic artery grafting for myocardial revascularization (Tashiro, Nakamura, & others) 1998;65:951-4\*

Re-replacement for prosthetic valve dysfunction: analysis of long-term results and risk factors (Morishita, Mawatari, & others) 1998;65:696-9\*



- The Ross procedure: shorter hospital stay, decreased morbidity, and cost effective (Jaggers, Harrison, & others) 1998; 65:1553-8\*
- Tricuspid atresia**  
Anastomosis of the left juxtaposed atrial appendages in a patient with tricuspid atresia (Kaneko, Okabe, & others) 1998;65:1783-4,CR  
Surgical management of tricuspid atresia and anomalous left brachiocephalic vein (Koutlas, Wernovsky, & others) 1998;65:1770-2,CR
- Tricuspid valve**  
Behavior of mitral allografts in the tricuspid position in the growing sheep model (Bernal, Rabasa, & others) 1998;65:1326-30\*  
Right ventricular obstruction by tricuspid pouch in simple ventricular septal defect (Kaneko, Okabe, & others) 1998; 65:550-1,CR  
Ross operation and mitral homograft for aortic and tricuspid valve endocarditis (Prat, Fabre, & others) 1998;65:1450-2,CR  
Suspension of straddling tricuspid valve chordae into the appropriate ventricle (van Son, Hambsch, & Mohr) 1998; 65:850-2,HW  
Tricuspid annuloplasty and ventricular plication for Ebstein's malformation (Vargas, Mengo, & others) 1998;65:1755-7\*  
Tricuspid valve closure for neonatal Ebstein's anomaly (Endo, Ohmi, & others) 1998;65:540-2,CR
- Tricuspid valve insufficiency**  
Tricuspid valve repair in a mountaineer (Marchbank, Parums, & Westaby) 1998;65:537-9,CR
- Tricuspid valve stenosis**  
Bicuspidization for tricuspid stenosis (Victor & Nayak) 1998; 65:1468-70,HW
- Troponin I**  
Levels of troponin I and cardiac enzymes after reinfusion of shed blood in coronary operations (De Paulis, Colagrande, & others) 1998;65:1617-20\*  
Patterns and potential value of cardiac troponin I elevations after pediatric cardiac operations (Hirsch, Dent, & others) 1998;65:1394-9\*
- Truncus arteriosus**  
Surgical palliation of truncus arteriosus with mitral atresia and hypoplastic left ventricle (Michelfelder, Zales, & Jacobs) 1998;65:260-3,CR  
Temporary aorto-pulmonary shunt for pulmonary hypertension after truncus arteriosus repair (Katsumata, Shinfield, & Westaby) 1998;65:1764-5,CR  
Trends in the management of truncal valve insufficiency (McElhinney, Reddy, & others) 1998;65:517-24\*  
Truncal valve repair: initial experience in neonates (Black, Adatia, & Freedom) 1998;65:1737-40\*
- Tuberculosis**  
A late complication of tuberculous pericarditis after partial pericardial resection (Gregory, Connery, & Anagnostopoulos) 1998;65:542-4,CR
- Tumor necrosis factor**  
Increased myocardial tumor necrosis factor- $\alpha$  in a crystalloid-perfused model of cardiac ischemia-reperfusion injury (Meldrum, Cleveland, & others) 1998;65:439-43\*
- Tunica intima**  
Intima-adventitia apposition in end-to-side arterial anastomosis: an experimental study in the pig (Heijmen, Gründeman, & Borst) 1998;65:705-11\*
- Ulnar artery**  
Ulnar artery as a coronary bypass graft (Buxton, Chan, & others) 1998;65:1020-4\*
- Ultrafiltration**  
Effects of cardiopulmonary bypass and use of modified ultrafiltration (Ungerleider) 1998;65:S35-9\*  
Impact of ultrafiltration on blood use for atrial septal defect closure in infants and children (Gurbuz, Novick, & others) 1998;65:1105-9\*
- Ultrasonics**  
Easy harvesting of radial artery with ultrasonically activated scalpel (Posacioğlu, Atay, & others) 1998;65:984-5\*  
Thoracoscopic limited pericardial resection with an ultrasonic scalpel (Ohtsuka, Wolf, & others) 1998;65:855-6,HW  
Use of an ultrasonic scalpel as an alternative to electrocautery in patients with pacemakers (Epstein, Mayer, & Duncan) 1998;65:1802-4,HW
- Ultrasonography**  
Ultrasound detection of diaphragmatic paralysis after cardiac operations (Yahagi, Watanabe, & Kumon) 1998;65:1841,CP
- Ultrasonography, Doppler, transcranial**  
Control of Endoaortic Clamp position during Port-Access mitral valve operations using transcranial Doppler echography (Schneider, Falk, & others) 1998;65:1481-2,HW
- Updates**  
Esophageal carcinoma: surgery without preoperative adjuvant chemotherapy (Mansour, Thourani, & Cooper) 1998;65:1492-3,UP  
Experimental study of a new porous tracheal prosthesis (Guijarro Jorge, Cantó, & others) 1998;65:1830-1,UP  
Four years' experience with fibrin sealant in thoracic and cardiovascular surgery (Spotnitz) 1998;65:592-3,UP  
Prolonged extracorporeal life support of pediatric and adolescent cardiac transplant patients (Delius) 1998;65:877-8,UP  
Sutureless ring graft replacement of ascending aorta and aortic arch (Oz, Ashton, & Lemole) 1998;65:1186-7,UP
- Vagus nerve**  
Bradycardia induced by intravascular versus direct stimulation of the vagus nerve (Thompson, Levett, & others) 1998;65:637-42\*
- Vascular cell adhesion molecule-1**  
Expression of vascular adhesion molecules in saphenous vein coronary bypass grafts (Chester, Morrison, & Yacoub) 1998;65:1685-9\*
- Vascular resistance**  
"Low SVR syndrome" or SIRS after cardiac operations? (Myles & Davis) 1998;65:298,CP  
Pulmonary vascular resistance of children treated with nitrogen during early infancy (Hirsch, Dent, & others) 1998;65:1394-9\*
- Vascular surgical procedures**  
Replacement of infected thoracic aortic prosthesis with a spiral composite vein graft (Palma, Gomes, & others) 1998;65:1135-7,CR  
Surgical management of aortopulmonary window (Di Bella & Gladstone) 1998;65:768-70\*
- Vasodilation**  
Hypoxia increases vasodilator release from internal mammary artery and saphenous vein grafts (Pearson, Evora, & others) 1998;65:1220-5\*
- Vena cava, inferior**  
Resection of a pulmonary malignancy invading the intrapericardial inferior vena cava (Roberts, Abbott, & others) 1998;65:263-5,CR

**Vena cava, superior**

Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*

Repair of complex unroofed coronary sinus by anastomosis of left to right superior vena cava (van Son, Hambsch, & Mohr) 1998;65:280-1,HW

**Venae cavae**

Echocardiography allows safer venous cannulation during excision of large right atrial masses (Rousou, Tighe, & others) 1998;65:403-6\*

**Ventricular function**

Acute changes in preload, afterload, and systolic function after superior cavopulmonary connection (Donofrio, Jacobs, & others) 1998;65:503-8\*

**Ventricular function, left**

Growth potential and left ventricular diastolic function in cardiomyoplasty (Misawa, Fuse, & others) 1998;65:1288-90\*

Left ventricular volume predicts postoperative course in patients with ischemic cardiomyopathy (Yamaguchi, Ino, & others) 1998;65:434-8\*

Surgical anatomy of aorto-left ventricular tunnel (Ho, Muriago, & others) 1998;65:509-14\*

**Ventricular function, right**

Effects of cardiomyoplasty on right ventricular filling during volume loading (Toyoda, Okada, & others) 1998;65:1676-9\*

Isolated right ventricular hypoplasia: intraoperative balloon occlusion test (Goh, Sasajima, & others) 1998;65:551-3,CR

Right ventricular obstruction by tricuspid pouch in simple ventricular septal defect (Kaneko, Okabe, & others) 1998;65:550-1,CR

**Ventricular outflow obstruction**

Cardiac rhabdomyomas and obstructive left heart disease: histologically but not functionally benign (Black, Kadletz, & others) 1998;65:1388-90\*

Modified Konno-Rastan procedure for subaortic stenosis: indications, operative techniques, and results (Roughneen, DeLeon, & others) 1998;65:1368-76\*

Right ventricular obstruction by tricuspid pouch in simple ventricular septal defect (Kaneko, Okabe, & others) 1998;65:550-1,CR

**Ventricular septal rupture**

Early repair of postinfarction ventricular septal rupture: infarct exclusion, septal stabilization, and left ventricular remodeling (de Boer & de Boer) 1998;65:853-4,HW

**Video-assisted thoracic surgery**

Efficiency of video-assisted thoracic surgery for primary and secondary spontaneous pneumothorax (Passlick, Born, & others) 1998;65:324-7\*

Minimally invasive diaphragm plication in an infant (Van Smith, Jacobs, & Burke) 1998;65:842-4,CR

Thoracoscopic lobectomy with endoarterial vascular control: an experimental study in swine (Conlan, Hsi, & others) 1998;65:336-9\*

Thoracoscopic operations on reoperated chests (Yim, Liu, & others) 1998;65:328-30\*

Video-assisted modified AbruZZini technique for bronchopleural fistula repair (Spaggiari, Carbognani, & others) 1998;65:1198-9,CP; Reply (Brutel de la Riviere, Knaepen, & van Swieten) 1998;65:1199-200,CP

Video-assisted repair of a traumatic intercostal pulmonary hernia (Reardon, Fabré, & others) 1998;65:1155-7,CR

Video-assisted thoracoscopic surgery for fibrinopurulent pleural empyema in 67 patients (Striffeler, Gugger, & others) 1998;65:319-23\*

**Wounds, gunshot**

Blunt cardiac rupture caused by zip gun backfire (Fulton, De Groot, & others) 1998;65:837-9,CR

Natural history of a ventriculoatrial fistula after a gunshot injury in 1945 (Selinger, Werner, & others) 1998;65:1137-8,CR

**Wounds and injuries**

Delayed presentation of traumatic parasternal lung hernia (Jacka & Luison) 1998;65:1150-1,CR

Diagnosis and management of traumatic aorto-right ventricular fistulas (Samuels, Kaufman, & others) 1998;65:288-92,CV

Laceration of the external iliac artery with a pediatric intraaortic balloon catheter (Sogawa, Watanabe, & Hayashi) 1998;65:892,CP

Management of major tracheobronchial injuries: a 28-year experience (Rossbach, Johnson, & others) 1998;54:182-6\*

Proximal aortic control in traumatic rupture of the thoracic aorta (Williams) 1998;65:1797,HW

Pulmonary vein injury through repetitive clip friction: an unusual cause of hemothorax (Sirbu, Herse, & others) 1998;65:548-50,CR

Surgical indications and timing of repair of traumatic ruptures of the thoracic aorta (Galli, Pacini, & others) 1998;65:461-4\*

Video-assisted repair of a traumatic intercostal pulmonary hernia (Reardon, Fabré, & others) 1998;65:1155-7,CR

**Xiphoid bone**

Transxiphoid approach without median sternotomy for the repair of atrial septal defects (Barbero-Marcial, Tanamati, & others) 1998;65:771-4\*



